

In the Court's view, LGD's construction improperly limits the constraining portion "to a passage through the film" and "a gap." This is contrary to the specification which expressly contemplates that a constraining portion may be a "groove" which does not equate with a "gap." '157 patent, col. 2, ll. 27-30, 63-65, col. 4, ll. 7-16.

c. first position / second position

With respect to the first and second orientations described in these terms, LGD argues that the first supporting portion or position must be located near an upper edge of the frame. LGD and AUO generally agree that the second position is determined by reference to the first position, but to the extent LGD's construction of the second position depends from its upper frame requirement of the first position, AUO contends that LGD's construction is incorrect. According to AUO, there is no upper edge location requirement and the first position is simply an initial position. D.I. 1383 at ¶¶ 513-516.

The Court agrees with AUO and concludes that no such upper edge limitation exists in the claim. In the Court's view, adopting LGD's proposal in this regard would improperly limit the claims to the preferred embodiments. Liebel-Flarsheim Co. v. Medrad, Inc., 358 F.3d 898, 906 (Fed. Cir. 2004). Accordingly, the Court concludes that a first position means "an initial position of a liquid crystal display unit" and a "second

position" means "the position determined by reference to the angle of rotation between the first and second position."

d. does not contact

LGD contends that the phrase "does not contact" means "does not touch;" however, LGD further explains that this "requires that a supporting portion does not touch a constraining portion when in a non-supporting position, including when the film expands or contracts due to temperature variation." D.I. 1388 at ¶ 681. AUO contends that this phrase should be construed according to its plain meaning and should not include any thermal expansion and contraction limitations. In this regard, AUO points out that such limitations are included in dependent claim 9, and therefore, the doctrine of claim differentiation should preclude claim 1 from being construed to include these additional limitations. D.I. 1384 at 40-41; D.I. 1440 at 17.

Claim differentiation "refers to the presumption that an independent claim should not be construed as requiring a limitation added by a dependent claim." Curtiss-Wright Control Corp. v. Velan, Inc., 438 F.3d 1374, 1380 (Fed. Cir. 2006). However, claim construction positions based on claim differentiation are rebuttable, taking a secondary role if an alternate construction is dictated by the written description or prosecution history. See Regents of the Univ. of Cal. v. Dakocytomation Cal., Inc., 517 F.3d 1364, 1375 (Fed. Cir. 2008).

After reviewing the claim language, specification and prosecution history, the Court concludes that the term "does not contact" should be construed as AUO proposes, according to its plain meaning without the additional temperature and thermal contraction and expansion limitations from claim 9 that inform LGD's proposed claim construction. Claim 9 depends on claim 1 and adds the limitations that "when the frame is disposed in the second position, a first gap is formed between the first supporting portion and the first constraining portion, and the first gap is an allowance for film expansion or contraction due to temperature variation; when the frame is disposed in the first position, a second gap is formed between the second supporting portion and the second constraining portion, and the second gap is an allowance for film expansion or contraction due to temperature variation." '157 patent, col. 9, ll. 16-20. During prosecution of the application for the '157 patent, the Examiner did not require the applicant to combine the elements of claims 1 and 9 into a single claim, and instead determined that claim 1 was separately patentable without any of the limitations of claim 9. AUO-10 at AUO-LGD 0001333, 0001452, 0001487-88; Tr. 1202:21-1203:6 (Smith-Gillespie). LGD points out that the embodiments of the '157 patent refer to thermal considerations, however limitations from the specification should not be read into claims. Claim 1 has no limitation relating to thermal expansion

or contraction, and the Court is persuaded that, consistent with the doctrine of claim differentiation, claim 1 should not be read in a manner so as to incorporate the limitations of claim 9.

4. U.S. Patent No. 7,090,506 (the "'506 patent")

AUO asserts claim 7 and 17 of the '506 patent. Claim 7 is a dependent claim that depends on independent claim 1. Claim 17 is also an independent claim. Accordingly, the relevant claims of the '506 patent provide, in full:

1. A signal transmission device, connecting a display module and a system, comprising: a first flexible printed circuit board, electrically connecting the display module and the system and a second flexible printed circuit board, electrically connecting the display module and the first flexible printed circuit board, wherein the first and second flexible printed circuit boards are joined by hot bar soldering.

7. The signal transmission device as claimed in claim 1, wherein the second flexible printed circuit board transmits a light source signal.

17. A signal transmission device, connecting an display module and a system, comprising: a first flexible printed circuit board, electrically connecting the display module and the system; and a second flexible printed circuit board, electrically connecting the display module and the first flexible printed circuit board, wherein the first flexible printed circuit board has a first alignment mark, and the second flexible printed circuit board has a second alignment mark overlapped with and aligned to the first alignment mark.

The parties agree that a person of ordinary skill in the art of the '506 patent is a person with a bachelors degree in mechanical engineering or physics and several years of experience working with aspects of liquid crystal display, or the equivalent

combined education and work experience. D.I. 1383 at ¶ 571; Tr. 227:12-20 (Silzars).

a. **the first and second flexible printed circuit boards are joined by hot bar soldering**

LGD contends that this term describes a process by which the circuit boards are joined, and is thus, a process limitation.

LGD contends that the term "the first and second flexible printed circuit boards are joined by hot bar soldering" means

both flexible printed circuit boards are connected to each other by a soldering process where the circuit boards are heated with a bar to melt the solder at multiple points simultaneously along each circuit board while pressure is applied to the connection.

D.I. 1388 at ¶ 541.

In response, AUO contends that this term is not a process limitation, but a structural limitation. In this regard, AUO contends that claim 1 does not include any of the typical product-by-process language and is a pure product claim defined solely by structural limitations. Thus, AUO contends that "joined by hot bar soldering" means "joined by solder material."

D.I. 1384 at 45. Alternatively, AUO contends that if this term is construed as a process limitation, it should be construed as

the first and second printed circuits made on flexible film are joined by a soldering process where the solder and flux are applied to the contact area and the contact area is heated with a bar to melt the solder.

D.I. 376 at Exh. O-4. AUO contends that LGD's construction is overly narrow, because hot bar soldering does not require

"pressure" beyond that which is necessary to hold the two items being soldered together and does not require melting solder at "multiple" contact points.

"Courts must generally take care to avoid reading process limitations into an apparatus claim" Baldwin Graphic Systems, Inc. v. Siebert, Inc., 512 F.3d 1338, 1344 (Fed. Cir. 2008). "Even where terms are amenable to interpretation as a procedure of manufacture, apparent 'process' terms should be interpreted as structural limitations when used in an adjective non-process sense and define a physical characteristic of the apparatus." R2 Medical Sys., Inc. v. Katecho, Inc., 931 F. Supp. 1392, 1425 n.5 (N.D. Ill. 1996) (citing 2 Donald S. Chisum, Patents § 8.05[5], at 8-96 (1994)); Biacore v. Thermo Bioanalysis Corp., 79 F. Supp. 2d 422, 456 (D. Del. 1999) ("The mere use in a claim of structural or characterizing terms derived from processes or methods, however, does not prevent a claim from being considered a true product claim.")

Considering the claim language in light of the specification and prosecution history, the Court concludes that the limitation "joined by hot bar soldering" does not amount to a process limitation, but instead describes the structural relationship between the first and second flexible printed circuit boards. Claim 1 of the '506 patent was distinguished over the prior art based on the limitation requiring that solder material join the

two flexible printed circuit boards rather than a foldable flat cable. AUO-12 at AUO-LGD 1948. Thus, the Court views the soldering described in this claim as a structural limitation. Accordingly, the Court construes the phrase "first and second printed circuit boards are joined by hot bar soldering" to mean that the "first and second printed circuit boards are joined by solder material."³

b. alignment mark

During the claim construction proceedings in this case, neither party proposed a construction for the term "alignment mark." However, it appears that post-trial the parties are now disputing the meaning of this term. According to LGD, a person of ordinary skill in the art would understand an "alignment mark" to "be a distinctive identifying feature that is provided solely for positioning of the flexible printed circuit boards during assembly." D.I. 1388 at ¶ 544.

In response, AUO contends that alignment marks can have more than one purpose. For example, they can function for both

³ Even if the Court concludes that this phrase is a process limitation, the Court concludes LGD's proposed construction is too narrow. In reaching this conclusion, the Court credits the testimony of Dr. Silzars regarding the hot bar soldering process. Specifically, Dr. Silzars explained that hot bar soldering requires applying a hot bar to a solder joint. However, this does not require that multiple joints be soldered simultaneously, and the Court finds no support for this additional limitation in the patent specification or prosecution history. Tr. 320:19-322:11, 336:11-18 (Silzars).

positioning and bonding. Thus, AUO contends that LGD's definition of alignment marks is too restrictive, and "alignment marks" should be more broadly defined as patterns used for accurate positioning and connection of flexible printed circuit boards. D.I. 1383 at ¶¶ 657-663; D.I. 1384 at 46, 50.

Reviewing this claim term in light of the specification of the '506 patent, the Court concludes that AUO's more expansive definition is correct. The '506 patent discloses more than one type of alignment mark. For example, pad electrodes are disclosed on the first and second printed boards in Figure 3a. These pad electrodes serve as both alignment marks for positioning and as contact pads for bonding or electrically joining two flexible printed circuit boards. '506 patent, col. 2, ll. 26-38. Accordingly, the Court concludes that an alignment mark is a pattern used for accurate positioning and connection of flexible printed circuit boards.

II. Direct Infringement

A. Applicable Law

A patent is infringed when a person "without authority makes, uses or sells any patented invention, within the United States during the term of the patent" 35 U.S.C. § 271(a). A patent owner may prove infringement under either of two theories: literal infringement or the doctrine of equivalents. Literal infringement occurs where each element of at least one

claim of the patent is found in the alleged infringer's product. Panduit Corp. v. Dennison Mfg. Co., 836 F.2d 1329, 1330 n. 1 (Fed. Cir. 1987); Robert L. Harmon, Patents and the Federal Circuit 195 & n. 31 (3d ed. 1994).

"The doctrine of equivalents allows the patentee to claim those insubstantial alterations that were not captured in drafting the original patent claim but which could be created through trivial changes." Festo Corp. v. Shoketsu Kinzoku Kogyo Kabushiki Co., 535 U.S. 722, 733 (U.S. 2002). "An element in the accused device is equivalent to a claim limitation if the only differences between the two are insubstantial." Honeywell Int'l v. Hamilton Sundstrand Corp., 370 F.3d 1131, 1139 (Fed. Cir. 2004). To prove infringement by the doctrine of equivalents, a patentee must provide "particularized testimony and linking argument" as to the "insubstantiality of the differences" between the claimed invention and the accused product, or with respect to the function/way/result test. See Texas Instruments Inc. v. Cypress Semiconductor Corp., 90 F.3d 1558, 1567 (Fed. Cir. 1996). "[E]vidence and argument on the doctrine of equivalents cannot merely be subsumed in plaintiff's case of literal infringement." Lear Siegler, Inc. v. Sealy Mattress Co., 873 F.2d 1422, 1425 (Fed. Cir. 1989).

Infringement is a two step inquiry. Step one requires a court to construe the disputed terms of the patent at issue.

Construction of the claims is a question of law subject to de novo review. See Cybor Corp. v. FAS Techs., 138 F.3d 1448, 1454 (Fed. Cir. 1998). Step two requires the fact-finder to compare the accused products with the properly construed claims of the patent. This second step is a question of fact. See Bai v. L & L Wings, Inc., 160 F.3d 1350, 1353 (Fed. Cir. 1998). The party asserting infringement under either the theory of literal infringement or the doctrine of equivalents has the burden of proof and must meet its burden by a preponderance of the evidence. SmithKline Diagnostics, Inc. v. Helena Lab. Corp., 859 F.2d 878, 889 (Fed. Cir. 1988) (citations omitted).

B. Whether LGD Infringes claims 1 and 3 of AUO's '160 Patent

After comparing LGD's accused products with claims 1 and 3 of the '160 patent, the Court concludes that AUO has established by a preponderance of the evidence that LGD literally infringes the '160 patent.⁴ In reaching this conclusion, the Court credits the testimony of Dr. Silzars.

⁴ LCD modules that include the New Monde chip are representative of the accused products. Tr. 169:6-170:18 (Silzars); AUO-1553. For purposes of infringement, the Court finds that there are no relevant differences between the LGD products that Dr. Silzars analyzed. Tr. 169:6-169:11 (Silzars). In addition, the accused LGD products that use overdrive are the same for purposes of infringement, based on Dr. Silzars' examination of the products and his analysis of the specification and the testimony of LGD witnesses. Tr. 169:12-23.

Claim 1 Preamble: A liquid crystal display, comprising

LGD does not dispute that this element of the claims is present in the accused devices, and the Court finds that LGD's accused display modules are liquid crystal displays. AUO-164 at 1/51; AUO-859.

Claim 1: an input logic for inputting a video signal from a host

Page 1 of the New Monde specification shows that the New Monde timing controller chip includes LVDS input logic for inputting a video signal from a host. AUO-165 at 1/51; Tr. 173:19-174:17 (Silzars). All of the timing controllers in the accused LGD modules receive an LVDS input through an input logic, the LVDS interface. AUO-1533; AUO-135 at 1/46; AUO-160 at 1/36; AUO 161 at 1/36; AUO 149 at 1/50; AUO 150 at 1/50; AUO-155 at 2/41; AUO 156 at 2/41; AUO-157 at 1/35; AUO-158 at 1/35; AUO-159 at 2/41; AUO-137 at 1/48; AUO-138 at 1/48; AUO-145 at 1/45; AUO-146 at 1/45; AUO-143 at 1/46; AUO-144 at 1/46; AUO-133 at 1/53; AUO-134 at 1/53; AUO-167 at 1/51; AUO-168 at 1/51; AUO-151 at 1/51; AUO-152 at 1/51; AUO-153 at 2/35; AUO-154 at 2/35; AUO-162 at 2/33; AUO-169 at 1/51; AUO-170 at 1/51; AUO-164 at 1/51; AUO-165 at 1/51; AUO-139 at 1/45; AUO-140 at 1/45; AUO-131 at 1/44; AUO-132 at 1/44; AUO-166 at 2/39; AUO-141 at 1/25; AUO-142 at 1/25; AUO-147 at 1/47; AUO-148 at 1/47.

Claim 1: storage for storing the previous brightness level of the video signal input through said input logic

The Court finds that the accused devices meet this claim element. The frame memory is the "storage for storing." The system block diagram of New Monde includes a "frame memory" identified as the "Frame Memory SDRAM" in the System Block Diagram and as a Field Store, in the Over Driving Scheme Diagram. Tr. 177:14-179:7 (Silzars); AUO-164/165 at 1/51 and 4/51. The frame memory stores the previous level of light intensity of the video signal input through the input logic. The frame memory temporarily holds the brightness level of the video signal received from the host through input logic for the previous time increment. Tr. 178:13-179:7 (Silzars); AUO-165 at 1. Each of the timing controller chips analyzed by Dr. Silzars is used in a system that includes a similar frame memory SDRAM, also called the Field Store in the Over Driving Scheme block diagram. AUO-1533; AUO-1553; AUO-135 at 1/46 and 4/46; AUO-136 at 1/46 and 4/46; AUO-160 at 1/36 and 3/36; AUO-161 at 1/36 and 3/36; AUO-149 at 150 and 4/50; AUO-150 at 1/50 and 4/50; AUO-155 at 2/41; AUO-156-2/41; AUO-157 at 3/35; AUO-158 at 3/35; AUO-159 at 2/41; AUO-137 at 1/48 and 4/48; AUO-138 at 1/48 and 4/48; AUO-145 at 1/45 and 4/45; AUO-146 at 1/45 and 4/45; AUO-143 at 1/46 and 4/46; AUO-144 at 1/46 and 4/46; AUO-133 at 3/53 and 4/53; AUO-134 at 3/53 and 4/53; AUO-167 at 1/51 and 4/51; AUO-168 at 1/51 and

4/51; AUO-151 at 1/51 and 4/51; AUO-152 at 4/51; AUO-153 at 2/35; AUO-154 at 2/35; AUO-162 at 2/33; AUO-169 at 1/51 and 4/51; AUO-170 at 1/51 and 4/51; AUO-164 at 1/51 and 4/51; AUO-165 at 1/51 and 4/51; AUO-139 at 1/45 and 4/45; AUO-140 at 1/45 and 4/45; AUO-131 at 3/44 and 4/44; AUO-132 at 3/44 and 4/44; AUO-166 at 2/39; AUO-141 at 2/25 and 4/25; AUO-142 at 2/25 and 4/25; AUO-147 at 1/47 and 4/47 and AUO-148 at 1/47 and 4/47.

LGD contends that the accused products do not meet this claim limitation, because the accused timing controllers store compressed data that represents a comparison of brightness levels to the average grayscale level of a block of liquid crystal cells. LGD contends that the compressed data is not actual previous brightness levels, nor can it be used to recreate actual previous brightness levels.

However, the Court finds that LGD's contentions are not supported by the record. The compressed data is used to recreate actual brightness levels. This is supported by LDG's presentation, AUO-1538 at page 9, which describes the decompressed data as the "reconstructed previous frame." This is also supported by the testimony of LGD's witness, Mr. Kim, who testified that decompression recovers "the original image or close to the original image" and that ideally the decompressed data is "identical" to the original data but there may be "some small," "acceptable" changes. Tr. 78:5-22 (C.G. Kim); Tr.

179:22-181:22 (Silzars). While it is true that the decompressed data is not used to actually display the images, it is used to look up overdrive values, which in turn display the image. Thus, errors in the decompressed data would impact the quality of the displayed image. Tr. 1363:3-1364:9 (Silzars). In sum, the Court concludes that the timing controllers do store the actual previous brightness levels in compressed form, and therefore, the Court finds that the accused devices meet the "storage for storing the previous brightness level of the video signal input through said input logic" claim element.

Claim 1: a determinator for determining an output brightness level based on the previous brightness level stored in said storage and the next brightness level of the next video signal input to said input logic

The Court concludes that the accused devices meet this claim limitation, because LGD's timing controller chips include a lookup table, which is the determinator for determining an output brightness level. The brightness level output by the lookup table is based on the previous brightness level, which was stored in the frame memory, and the next brightness level. In the example of the New Monde lookup table, the brightness level for the previous frame and the current frame ranges from 0 to 255. Tr. 172:14-173:9 (Silzars); AUO-165 at 26/51. The lookup table is used to compare the video information (i.e. the brightness level) in the previous frame to the brightness information in the current frame and apply a correction. Tr. 171:15-172:13

(Silzars); AUO-165 at 4/51. Each of the timing controllers analyzed by Dr. Silzars includes a similar lookup table.

LGD's argument that this claim limitation is not met relates to its argument regarding the storage of previous brightness levels, which the Court has declined to accept. In addition, LGD argues that the timing controllers in the accused products do not use "offset" values as required by the limitation "a determinator for determining an output brightness level." However, the claim terms do not include the term "offset," and the Court is not persuaded that an "offset" should be read into the accused devices. Accordingly, the Court concludes that the accused devices satisfy this claim limitation.

Claim 1: so as to make a time integration quantity of a brightness change substantially equal to an ideal quantity of light in a stationary state with respect to the next brightness level

The Court concludes that the accused products meet the limitations of this claim element. The determinator must provide an output brightness level that achieves the claimed results: a time integration of a brightness change that is substantially equal to an ideal quantity of light. Dr. Silzars tested the accused products, measuring the brightness change and noting that the brightness change was within 20% of the ideal response. See e.g. AUO-1075; Tr. 193:17-195:8; 1370:23-1372:9 (Silzars).

LGD contends that Dr. Silzars's test results are inaccurate for several reasons, including that Dr. Silzars's calculations

did not reflect the "total amount of light" that would be emitted from the liquid crystal cell. Based on the Court's claim construction, however, the claims do not refer to the total amount of light that would be emitted by an ideal liquid crystal cell. Rather, the claims are directed to the amount of light that would be emitted due to the brightness change. Further, the Court credits Dr. Silzars's test results, and concludes, based on his testimony, that a brightness change within 20% is substantially equal to an ideal quantity of light in a stationary state with respect to the next brightness level.

LGD's argument that this claim element is not met in the accused devices is premised on the notion that "substantially equal" should also represent an improvement in the context of the "ideal quality of light." However, the Court has not included this additional language in its construction of the relevant terms, and therefore, the Court concludes that an improvement is not necessary to establish this claim element.

In sum, the Court finds that AUO has established by a preponderance of the evidence, that the accused LGD products meet the elements of claim 1 of the '160 patent. Accordingly, the Court concludes that LGD infringes claim 1 of the '160 patent.

Claim 2: The liquid crystal display according to claim 1, wherein said determinator comprising a table for storing a brightness level determined by the characteristic of a liquid crystal cell according to a relation between the previous brightness level and the next brightness level, and determining the output brightness level by modifying said next brightness level based on the brightness level read from said table.

The Court concludes that the limitations described in claim 2 are met in the accused devices. The determinator in LGD's timing controller chips comprises a table for storing a brightness level. This table is the lookup table, which stores a brightness level. Tr. 204:11-16, 172:14-173:18 (Silzars); AUO-165 at 26/51. The lookup table stores brightness levels that vary according to the relation between the previous brightness level and the next brightness level. Id. The lookup table values are determined by the characteristics of the liquid crystal cell. They are determined by trial and error using measurements of the response of the liquid crystal cell. A person makes the measurements using a photodiode, which measures light, and an oscilloscope. Tr. 79:24-80:24 (C.G. Kim).

Claim 3: The liquid crystal display according to claim 2, wherein: said video signal input through said input logic comprises a plurality of color signals; and

The Court concludes that this claim element is met in the accused devices. The video signal input includes a plurality of color signals. In particular, the LVDS video signal includes three separate colors: red, green and blue. Tr. 204:17-205:4;

434:24-435:10 (Silzars); AUO-165 at 1/51. The LVDS receiver, which inputs the LVDS signal, converts the LVDS data stream back into 28 bits or RGB, that is red, green and blue data. AUO-165 at 3/51, 4/51.

Claim 3: said table in said determinator is provided for each of said color signals.

The Court concludes that this claim element is also met in the accused devices. The lookup table includes three separate lookup tables, one each for red, blue and green data. Specifically, there are three Arithmetic LUTs, or lookup tables, in the block diagram for the New Monde chip. The Arithmetic LUTs each output 8 bits of red, green and blue, respectively. Tr. 205:5-10 (Silzars); AUO-165 at 3/51, 14/51; Tr. 958:12-23 (Eccles).

In sum, the Court concludes that AUO has established by a preponderance of the evidence, that the accused LGD products meet the elements of claim 3 of the '157 patent. The LGD LCD modules containing the New Monde controller chip include every element of claim 3 of the '160 patent. Further, the LGD modules containing the New Monde timing controller chip, which infringe claim 1 are representative of the accused products containing the timing controller chips identified in AUO-1553, the listing of timing controller chips analyzed for infringement. Tr. 169:6-23, 170:8-18 (Silzars). Each of these products therefore also infringes claim 3. Accordingly, the Court concludes that LGD infringes

claim 3 of the '160 patent.

C. Whether LGD Infringes claims 7 and 16 of AUO's '629 Patent

1. AUO's standing to assert the '629 patent

As a threshold matter, LGD contends that AUO lacks constitutional standing to assert the '629 patent against LGD, because AUO was not the owner of the '629 patent at the time this action was filed. LGD contends that the inventors of the '629 patent assigned their rights in the patent to IBM Japan, but IBM Japan never assigned its rights to International Business Machines Corporation (US) ("IBM USA") before IBM USA assigned its rights to AUO in June 2005. Thus, LGD contends that the June 2005 assignment could not have included the '629 patent. In addition, LGD contends that AUO cannot cure this standing defect through the retroactive application of the Patent Assignment Form filed with the PTO in May 2007 (LGDTX 931), which purported to assign the rights in the '629 patent from the named inventors to IBM USA.

In response, AUO contends that the '629 patent issued naming IBM USA as the assignee on the face of the patent, and IBM USA received title to the '629 patent through a succession of assignment agreements. As a result, AUO contends that the June 2005 Patent Assignment Agreement, in which IBM USA transferred and assigned to AUO "all right, title and interest in and to" certain specified patents, including the '629 patent "along with

any and all damages for infringement of any of the assigned patents before, on and after" June 30, 2005, "and the sole right to sue therefor under the assigned patents," was sufficient to transfer title of the '629 patent from IBM USA to AUO.

In a patent case, as in all federal actions, a plaintiff must have standing to sue before a claim can be brought. Sicom Sys. v. Agilent Techs., Inc., 427 F.3d 971, 975 (Fed. Cir. 2005). The burden to establish standing rests on the party bringing suit. Id.

The assignation on the face of a patent is "not a conclusive indication" of patent ownership.⁵ U.S. Philips Corp. v. Iwasaki Elec. Co., 505 F.3d 1371, 1375 (Fed. Cir. 2007). Rather, the plaintiff must demonstrate that it is the owner/patentee, assignee, or grantee of the patent-in-suit. See 35 U.S.C. § 281; Morrow v. Microsoft Corp., 499 F.3d 1332, 1339 (Fed. Cir. 2007); Fairchild Semiconductor Corp. v. Power Integrations, Inc., 2007 U.S. Dist. Lexis 93711, *13-14 (D. Del. 2007).

⁵ There is some authority, however, suggesting that the ownership data provided on the face of a patent creates a presumption of ownership. Arachnid v. Merit Indust., Inc., 939 F.2d 1574, 1578 n.2 (Fed. Cir. 1991); Board of Trustees of the Leland Stanford Junior Univ. v. Roche Molecular Sys., Inc., 487 F. Supp. 2d 1099, 1111 n.4 (N.D. Cal. 2007). Regardless of whether the Court views the naming of IBM USA as the assignee on the face of the patent as a presumption of ownership or not, the Court concludes that assignment to IBM USA has been demonstrated either affirmatively by AUO or by the fact that LGD has not overcome the presumption that legal title to the '629 patent vested in IBM USA as the assignee.

On the record presented, the Court concludes that AUO has demonstrated by credible chain of title evidence that it is the assignee of the '629 patent.⁶ LGD contends that the inventors assigned their rights to the invention claimed in the '629 patent to IBM Japan in 2000, and there was no direct conveyance of rights between IBM Japan and IBM USA prior to IBM USA's assignment to AUO. However, LGD's argument ignores the assignment documents predating 2000. Specifically, IBM USA and IBM World Trade ("World Trade") entered into an agreement dated January 1, 1963, in which IBM USA acquired any patents that World Trade had or thereafter acquired. AUO-302 at IBM 300004. Thereafter, IBM Japan and World Trade executed two agreements in which IBM Japan granted to World Trade the right to all of IBM's patent applications and patents in countries other than Japan. The first agreement dated June 25, 1981, amended a previous 1960 agreement and provided that IBM Japan grants "to World Trade and/or its designees, in respect to inventions owned or controlled by IBM Japan, the right in countries other than Japan to file or have filed on its behalf or on behalf of such designees, and to own such applications for patents and the patents issuing thereon . . ." AUO-303 at IBM 3000014-300015. The 1981 agreement was extended by the December 1990 letter

⁶ LGD's objections to the admission of this evidence are addressed by a separately issued Memorandum Opinion and Order.

agreement which provided that the 1960 agreement, as amended, would not terminate until December 31, 2000. AUO-304.

The inventors transferred their ownership interests to IBM Japan in August 2000, prior to the termination of the 1960 agreement between IBM Japan and IBM World Trade, as amended by the 1981 and 1990 agreements. AUO-258, AUO-P-963. Thus, by operation of these agreements and the earlier 1963 agreement between World Trade and IBM USA, title of the '629 patent flowed from IBM Japan to IBM USA through World Trade's designation of IBM USA as its designee. Accordingly, the Court concludes that IBM USA held title to the '629 patent on the date of its issuance and in 2005 when IBM USA assigned the '629 patent to AUO, and therefore, AUO was the rightful owner of the '629 patent at the time it commenced this action.

2. Infringement of Claim 7 and Claim 16

After comparing LGD's accused products with claims 7 and 16 of AUO's '629 patent, the Court concludes that AUO has established by a preponderance of the evidence that LGD literally infringes the '629 patent.

Claim 1 Preamble: An array substrate for display

The Court finds that this claim element is met in the accused devices. An array substrate, in the context of liquid crystal display modules, is an insulating substrate carrying one or more arrays of components such as thin film transistors. '629

patent, col. 1, ll.8-20; Tr. 142:20-143:3 (Silzars). LGD does not appear to object to this characterization of an array substrate, yet LGD appears to take issue with whether this limitation is met in the accused products. In the Court's view, LGD's argument here is apparently based on semantics rather than on substance. Based on the representation demonstrated in court by Dr. Silzars, the Court finds that the LGD's accused products include a substrate made from a layer of glass and an array of thin film transistors among the components formed on the glass substrate. Tr. 142:11-143:3, 128:11-129:4 (Silzars); AUO-1571.

**Claim 1: a layer of an insulating substrate,
having an area**

The Court concludes that this claim element is met in the accused devices. Glass is a suitable insulating material, and the array substrate of the representative accused product, LC320W01, includes a layer of glass as the insulating material. Tr. 142:11-143:3 (Silzars); Tr. 843:22-845:8, 864:16-21 (Rubloff). In addition, that layer of glass has an area or specified region where the dummy conductive patterns are located, as discussed more fully below. Tr. 143:4-145:5 (Silzars); AUO-1567.

**Claim 1: a thin film transistor array formed on
the insulating substrate**

The Court concludes that this element is met in the accused devices. LC320W01 includes a thin film transistor array. AUO-

1567; AUO-774-1; Tr. 140:16-141:9 (Silzars). The thin film transistor array is formed on an insulating substrate when manufactured. Tr. 140:16-141:9, Tr. 128:11-129:4, 129:13-131:2 (Silzars); AUO-1568-1574. Dr. Rubloff did not dispute Dr. Silzars's testimony that the accused products meet this claim element. LGD-1084 at 629-009.

Claim 1: a plurality of wiring arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array

The Court concludes that the accused products include a plurality of wiring as the Court has construed that term. The plurality of wiring in LC320W01 is labeled in AUO-1567. As shown in AUO-1567, the plurality of wiring is formed and arranged on the device's insulating substrate in a fan-out pattern between the connection pads and the edge of the thin film transistor array. Tr. 125:1-15, 140:11-15 (Silzars); AUO-P-1479-02, AUO-P-1479-39; AUO-P-1479-45; AUO 1568; AUO-1570; AUO-1571. The plurality of wiring also extends between, on a first end, connection pads, and on a second end, the thin film transistors of the TFT array. Tr. 125:1-126:7 (Silzars). The wiring of the LC320W01 communicates with the thin film transistors of the TFT array. Tr. 125:16-129:4, 139:10-140:15 (Silzars); AUO-1567; AUO-1568; AUO-1570; AUO-1571. Dr. Rubloff did not dispute Dr. Silzars' testimony that this claim element was met in the accused products. LGD-1084 at 629-009.

Claim 1: connection pads, each connection pad contacting the first end of at most one of the plurality of wirings

LGD does not appear to dispute that this claim element is met in the accused devices. The parties agreed that the claim term "connection pads" means "conductive patterns on the substrate that electrically connect the plurality of wiring to circuits located external to the substrate." Tr. 138:5-139:9 (Silzars). The Court concludes that this claim element is found in LC320W01. In LC320W01, the connection pads are identified in AUO-1567 and AUO-1568 and are located along at least one edge of the insulating substrate of the LC320W01. Tr. 123:19-124:22 (Silzars).

Claim 1: pixel electrodes

LGD does not appear to dispute that this claim element is met in the accused devices. Pixels or picture elements are included on a thin film transistor array. Tr. 310:5-311:3 (Rubloff - Phase II). Pixels include pixel electrodes that operate to allow the passage of light. Tr. 310:5-311:3 (Rubloff - Phase II). The Court concludes that pixel electrodes are present in the array substrate of the LC320W01. Specifically, the LC320W01 includes a plurality of transparent electrodes which, in a completed product, store and apply a driving voltage to a pixel in an LCD. AUO-1567; Tr. 141:10-142:10 (Silzars).

Claim 1: dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wiring

The Court concludes that this claim element is present in the accused devices. LGD refers to the accused dummy conductive patterns as "line-on-glass" or LOG patterns. Tr. 831:11-832:23 (Rubloff). These patterns are located near the edge of the insulating substrate, between the connection pads and pixel electrodes. They are not in contact with any of the wiring. Tr. 131:3-23, 144:5-145:5, 146:19-22 (Silzars); AUO-1567, AUO-1569. These patterns cover more than 50% of the area or specified region in which they are situated. Tr. 146:11-18 (Silzars).

LGD's noninfringement argument regarding this claim element is two-fold. First, LGD contends that the accused devices do not have "dummy conductive patterns" that are meant to aid during etching and do not convey signals. More specifically, LGD's argument suggests that after the completed array substrate has been combined with a number of components to form a completed LCD module there is an indirect connection to the wiring and the accused dummy patterns convey signals. LGD's argument, however, is based upon claim construction limitations that the Court has not accepted. In addition, the claim language does not prohibit indirect electrical connection or communication between dummy conductive patterns and the wiring. Rather, the claims only

require that the dummy conductive patterns do not contact the wiring. Furthermore, that the accused dummy patterns may transmit signals after the accused array substrates have been assembled into an LCD module is not relevant to the claims asserted here, because those claims are directed to "an array substrate" alone, not an LCD module including an array substrate. See e.g., Gemtron Corp. v. Saint-Gobain Corp., 572 F.3d 1371, 1377-1379 (Fed. Cir. July 20, 2009) (claim directed to a shelf required the shelf to have the claimed characteristics before it was assembled into a finished product).

LGD's second argument focuses on the term "area." Specifically, LGD contends that any alleged dummy conductive patterns in its accused products do not comprise at least about 30% of the area of the insulating substrate. As with its previous argument, however, LGD's argument concerning the term "area" depends upon a claim construction which the Court has not adopted. Further, the Court credits the testimony of Dr. Silzars that the accused dummy conductive patterns in each of the accused products covers more than 50% of the region in which they are situated. Accordingly, the Court concludes that this claim element is met in the accused devices.

Claim 2: The array substrate according to claim 1 wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials

LGD does not appear to dispute that this claimed element is present in the accused devices, and the Court finds this claim element to be present in LC320W01. The wiring of LC320W01 is made from a lower layer of aluminum with neodymium, an aluminum alloy, and an upper layer of molybdenum. Both neodymium and molybdenum are conductive materials. Tr. 858:4-9 (Rubloff); Tr. 138:21-139:9, 291:9-15 (Silzars); Tr. 101:16-102:1 (I.D. Song).⁷

Claim 4: The array substrate according to claim 2 wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium, and alloys thereof.

LGD does not appear to dispute that this claim element is present in the accused device, and as discussed above, the Court has found that the upper layer wiring material in the accused devices is molybdenum. Tr. 291:9-15 (Silzars); Tr. 101:16-102:1 (I.D. Song). Accordingly, the Court concludes that this claim element is met in the accused devices.⁸

⁷ Claims 2 and 10 recite the same claim limitation. Because the LC320W01 includes the limitation of claim 2, it includes the limitation of claim 10. Further, claim 11 requires the wiring of the LC320W01 to include a lower layer of aluminum with neodymium, an aluminum alloy. As explained with respect to claim 2, the limitation of claim 11 is met here, as well.

⁸ This claim limitation is also asserted in claim 13. Because the LC320W01 includes the limitation of claim 4, the Court concludes is also meets the same limitation as set forth in claim 13.

Claim 7: The array substrate for display according to claim 3 wherein the upper layer wiring material is selected such that the upper layers wiring material does not become insoluble in an acid or alkaline etchant.

The Court concludes that the accused devices satisfy this claim element. In LC320W01, the wiring of the array substrate is formed using an acid etchant. Tr. 98:3-8 (I.D. Song). During the wet etching process, the upper layer wiring material is etched at a faster rate than the lower layer wiring material. Tr. 102:7-13 (I.D. Song); Tr. 148:24-149:17 (Silzars). This confirms that the upper layer material in the wiring of the LC320W01 array substrate remains soluble through the etching process, because if the upper layer of conductive material in the wiring of the accused products were to become insoluble, the etching of the upper layer would have been slowed or stopped altogether.⁹ Tr. 148:24-149:17; Tr. 147:24-148:15 (Silzars).

Claim 9 Limitations

Claim 9 corresponds essentially to claim 1. Tr. 826:17-827:4 (Rubloff). Because the Court has concluded that the representative accused product, LC320W01, includes the limitations of claim 1, the Court also concludes that it includes the limitations of claim 9.

⁹ This claim limitation is also asserted in claim 16. Because the LC320W01 includes the limitation of claim 7, the Court concludes it also meets the same limitation as set forth in claim 16.

In sum, the Court finds that AUO has established by a preponderance of the evidence, that the accused LGD products meet the elements of claims 7 and 16 of the '629 patent. Accordingly, the Court concludes that LGD infringes claims 7 and 16 of the '629 patent.

D. Whether LGD Infringes claim 1 of AUO's '157 Patent

After comparing LGD's accused products with claim 1 of the '157 patent, the Court concludes that AUO has established by a preponderance of the evidence that LGD directly infringes the '157 patent. In reaching this conclusion, the Court credits the testimony of Dr. Silzars.

Claim 1 Preamble: A backlight unit for a liquid crystal display, comprising

LGD does not dispute that this claim element is met in the accused products, Tr. 1103:23-1104:14 (Smith-Gillespie), and the Court finds the element to be present in the accused devices as shown in the engineering drawings of the backlight assembly.

Claim 1: a frame

Although LGD's expert witness Mr. Smith-Gillespie initially disputed in his expert report that the accused products had a frame, LGD did not raise this argument at trial. In any event, the Court finds that all of the accused products include a frame. The frame is comprised of a metal portion, denoted as a "cover bottom" in LGD's engineering drawings and a white "tray," denoted as a "supporter side" in LGD's engineering drawings. Tr. 215:13-

216:3 (Silzars).

Claim 1: a first supporting portion, disposed on the frame

Claim 1: a second supporting portion, further disposed on the frame

As defined by the Court, a "supporting portion" is "any structure protruding from the frame, (including but not limited to a cylinder or cuboid) intended to support the optical film." The Court finds that all of the accused products meet this limitation because they have pins that protrude from two edges of the frame. AUC-541-543; Tr. 216:4-217:10 (Silzars). The Court further finds that all of the accused products have a first and second supporting portion, and it is arbitrary whether the pins protruding from the (i) left vertical edge or (ii) the top horizontal edge are referred to as the "first" or "second" supporting portion.

Claim 1: a film comprising a first constraining portion and a second constraining portion

The Court concludes that the accused products meet this claim limitation because they all have optical films with holes on two different edges, the top horizontal edge or the left vertical side, constituting the first and second constraining portions. Tr. 218:13-219:6 (Silzars); 1102:9-1103:4, 1104:15-20 (Smith-Gillespie). Consistent with the Court's discussion of the first and second orientation above, the determination of which holes are the first constraining portion and which holes are the

second constraining portion depends upon which set of protrusions is deemed the first or second supporting portion.

Claim 1: a film comprising a first constraining portion and a second constraining portion, position on the frame by the first supporting portion and the second supporting portion passing through the first constraining portion and the second constraining portion, respectively

The Court concludes that this element is met in all of the accused products. The optical film in the accused products is positioned on the frame by having the protrusions on the edge of the frame pass through the respective holes in the optical film. Tr. 219:19-221:17 (Silzars); AUO 545, 546; Tr. 92:11-94:22 (Moon); Table 1.

Claim 1: when the frame is disposed in a first position, the first supporting position partially contacts an inner wall of the first constraining portion for positioning the film, and the second supporting portion does not contact the second constraining portion

The Court concludes that each of the accused products has the aforementioned element. When the frame is disposed in a first position, for example, the landscape orientation, there are pins protruding from the top horizontal edge of the frame that pass through and support the optical films. In this position, the second set of vertical pins on the side edge do not contact the holes. AUO-563; Tr. 222:18-223:3 (Silzars). This conclusion is consistent with Mr. Moon's testimony explaining that LC420WX5 is designed so that there are gaps on all sides between the pins

and the holes in the optical film through which the pins pass. Tr. 94:4-22 (Moon). As Dr. Silzars explained, the dimensions of the gaps change when the film is disposed in different orientations, essentially, the film "floats" within the frame. Tr. 223:17-224:6 (Silzars); AUO 563-565, Table 1.

LGD contends that the accused products do not meet the "does not contact" requirement of this claim because there is contact when the film expands or contracts due to temperature variations. However, Mr. Smith-Gillespie admitted that at room temperature, when in a first position of landscape orientation, there is a "clearance" between the holes and the pins on the vertical side edge. LGD 1090 at LGD 157-030, LGD 157-031; LGD-837; LGD-840; Tr. 1109:7-16, 1204:20-23 (Smith Gillespie). LGD contends that this evidence is insufficient to establish infringement, because "claim 1 requires that thermal expansion and contraction of the film be accounted for so that the supporting portions do not contact the constraining portions when in a non-supporting position during the entire temperature range of the backlight unit." D.I. 1407 at ¶ 233. In this regard, LGD maintains that it was unnecessary for the patent to expressly include a specific temperature range for the accommodation of film expansion and contraction, because "[i]f the thermal expansion and contraction requirement applied to an amount less than the entire temperature range as suggested by AUO, this requirement would be meaningless

because it could read on standard engineering tolerances (clearance) or fit clearances." Id. However, the Court has concluded that the "does not contact" requirement does not include any thermal expansion or contraction limitation and neither the patent nor the prosecution history specifies any temperatures over which thermal expansion or contraction must be accommodated. Accordingly, the Court declines to accept Mr. Smith-Gillespie's infringement opinion which is predicated upon a claim construction that was not adopted by the Court, and therefore, the Court concludes that the aforementioned claim element is met in the accused devices.

Claim 1: when the frame is disposed in a second position, the second supporting portion partially contacts an inner wall of the second constraining portion for positioning the film, and the first supporting portion does not contact the first constraining portion

The Court likewise concludes that this element is satisfied in all of the accused products. When the frame is disposed in a second position, for example moving from the landscape to portrait orientation, there are pins protruding from the top horizontal edge of the frame that pass through and support the optical films while the second set of vertical pins on the side edge do not contact the holes. AUO-563. The "does not contact" limitation here is satisfied for the same reasons discussed in connection with the previous claim element. To the extent that "incidental contact" occurs, the Court notes that the patent

discloses the possibility of "incidental contact," and as Dr. Silzars explained, such incidental contact is the nature of what is taught in the patent when film is not securely fixed to the frame. Tr. 225:8-10; Tr. 224:24-225:1 (Silzars).

With respect to this and other claim elements, LGD contends that not all of its displays are intended to be displayed in both landscape and portrait orientation, and therefore, they cannot meet claim elements which require orientation in a second position. However, the evidence demonstrates that all LGD public displays can support viewing in both landscape and portrait orientations, AUO-81; Tr. 213:2-24 (Silzars), and the other LGD non-public display products are capable of being used in portrait orientation at least temporarily, even if LGD does not guarantee the quality or lifetime of a non-public display unit used in that orientation. Tr. 90:24-91:11, 92:7-10 (Moon).

In sum, the Court finds that AUO has established by a preponderance of the evidence, that the accused LGD products meet the elements of claim 1 of the '157 patent. Accordingly, the Court concludes that LGD infringes claim 1 of the '157 patent.

E. Whether LGD Infringes Claims 7 and 17 of the '506 Patent

After comparing LGD's accused products with the claim 7 and 17 of the '506 patent, the Court concludes that AUO has established by a preponderance of the evidence that LGD literally infringes the '506 patent. In reaching this conclusion, the

Court finds LB035Q02 to be representative of the accused products. Tr. 228:13-229:3 (Silzars).

Claim 1 Preamble: A signal transmission device connecting a display module and a system

The Court finds that the accused products include a signal transmission device connecting a display and module and a system. "The LB035Q02 is a Color Active Matrix Liquid Crystal Display with a white LED backlight assembly." AUO-61 at 4/35; AUO-64 at 4/31; AUO-66 at 4/33. "This LCD employs one interface connection for the operation of [the] module, LED B/L [backlight] and TSP (touch screen panel)." AUO-61 at 6/35. The signals received over the 60-pin flexible printed circuit board is described in the pin configuration for the connector. AUO-61 at 6/35-7/35.

Claim 1: a first flexible printed circuit board, electrically connecting the display module and the system and a second flexible printed circuit board, electrically connecting the display module and the first flexible printed circuit board

Although AUO advances arguments and terms for claim construction related to this claim element, LGD does not appear to offer a response to those arguments. Further, it appears to the Court that LGD does not genuinely dispute the presence of this element in the accused devices, but instead focuses its argument on evidentiary based objections to the drawings and specifications used by AUO to support its argument.¹⁰ D.I. 1407

¹⁰ The parties have separately briefed any evidentiary objections that were maintained, and the Court has addressed

at ¶¶ 253-255. The Court finds that this element is met in the accused products. AUO-1575; Tr. 229:4-232:8 (Silzars); Tr. 86:6-17 (J.D. Kim); AUO-61 at 31/35; AUO-62; AUO-331 through AUO-340; AUO-63; AUO-64 at 27/31; AUO-65; AUO-66 at 30/33; AUO-67; AUO-340; AUO-341; AUO-P-1491; AUO-P-1492; AUO-425; AUO-426.

Claim 1: wherein the first and second flexible printed circuit boards are joined by hot bar soldering

In light of the Court's construction of the phrase, "hot bar soldering," the Court concludes that each of the accused products meets this claim limitation. The first and second flexible printed circuit boards of LB035Q02, which is representative of the accused products, are joined by soldering material. Tr. 233:22-234:5 (Silzars); Tr. 1316:20-1317:23 (J.D. Kim); Tr. 1120:6-1130:6, 1132:8-1133:8 (Smith-Gillespie); AUO at 16/23, 18/23.

Claim 7: The signal transmission device as claimed in claim 1 wherein the second flexible printed circuit board transmits a light source signal

LGD does not appear to dispute that the accused products meet this claim limitation and again focuses its argument on certain evidentiary issues. D.I. 1407 at ¶ 276. The Court finds that this element is met in the accused devices. By way of example, the Court points out that LB035Q02 has a white LED

those objections that were briefed by the parties in their evidentiary briefs by separate Memorandum Opinion and Order.

(light emitting diode) backlight assembly connected to the main or first flexible printed circuit board through an LED flexible printed circuit board. Tr. 85:6-11, 87:16-89:2 (J.D. Kim); AUO-63.

Claim 17: A signal transmission device, connecting an [sic] display module and a system, comprising: a first flexible printed circuit board, electrically connecting the display module and the system; and a second flexible printed circuit board, electrically connecting the display module and the first flexible printed circuit board

With regard to the above claim element, the Court notes that claim 17 is identical to portions of claim 1. For the reasons discussed in the context of claim 1, the Court finds that the accused products meet these claim elements.

Claim 17: wherein the first flexible printed circuit board has a first alignment mark, and the second flexible printed circuit board has a second alignment mark overlapped and aligned to the first alignment mark

The Court concludes that the accused products meet this claim element. The accused products include both holes as alignment marks, Tr. 232:9-233:18 (Silzars); Tr. 83:5-85:5, 86:18-87:5, 1319:5-1320:6 (J.D. Kim); AUO-67 ("4"), and extended pad electrodes. Tr. 232:23-233:18, 240:15-241:12 (Silzars). Prior to the soldering process, an operator assembling the accused product visually observes and aligns the pad electrodes of the first and second flexible printed circuit boards. Tr. 81:20-82:22 (J.D. Kim); Tr. 233:5-13 (Silzars).

In sum, the Court finds that AUO has established by a preponderance of the evidence, that the accused LGD products meet the elements of claims 7 and 17 of the '506 patent. Accordingly, the Court concludes that LGD infringes claims 7 and 17 of the '506 patent.

III. Invalidity

A. Whether Claims 1 and 3 of the '160 Patent Are Invalid

1. Indefiniteness

LGD contends that claims 1 and 3 of the '160 patent are invalid because the terms "time integration quantity" and "substantially equal" are indefinite. The Court has concluded, in the context of its claim construction rulings, that these terms are not indefinite. Accordingly, the Court concludes that LGD cannot establish invalidity of the '160 patent on the basis of indefiniteness.

2. Anticipation and/or obviousness in light of the Mori, Kido and Johnson references

LGD contends that claims 1 and 3 of the '160 patent are invalid and/or obvious in light of the Mori JP '532 publication reference, which is disclosed in the background section of the '160 patent, and the Kido and Johnson references. According to LGD, Mori discloses a liquid crystal display with a conventional overdrive circuit and each of the claimed elements of the '160 patent. While the Mori reference does not explicitly teach that the overdrive circuit is applied to each of red, green and blue

signals, LGD contends that it would have been obvious to apply the overdrive circuit to each red, green and blue signals, as evidenced by the Kido and Okumura references. With respect to the Kido and Johnson references, LGD also makes arguments independent of the Mori reference, that Kido and Johnson render the '160 patent invalid as anticipated and/or obvious.

In response, AUO contends that Mori, Johnson and Kido do not mention improving the quantity of light, and that even if one uses a conventional prior art overdrive system such as Mori, Kido or Johnson that seeks to improve response time, the pixel may emit, but will not necessarily emit, a quantity of light that approaches the ideal. Thus, AUO maintains that Mori, Johnson and Kido do not inherently disclose an output brightness level so as to make a time integration quantity of a brightness change substantially equal to the ideal. In addition, AUO contends that Kido does not disclose "a determinator for determining an output brightness level," a "determinator for comprising a table for storing brightness level," and a "table in said determinator [] provided for each of said color signals." AUO further contends that Johnson does not disclose "a determinator for determining an output brightness level," and a "determinator for comprising a table for storing brightness level."

After reviewing the prior art references in light of the testimony and evidence adduced at trial, the Court concludes that

LGD has not established by clear and convincing evidence that the Mori, Kido and Johnson references invalidate the '160 patent. The Court is persuaded that none of the cited references disclose the time integration quantity of a brightness change that is substantially equal to an ideal quantity of light. These references do not mention improving the quantity of light, Tr. 1003:6-24 (Eccles), and both experts who testified at trial agreed that using these prior art systems to improve response time does not necessarily result in the pixel emitting a quantity of light that is substantially equal to the idea. Tr. 1380:9-23, 1377:9-23, 1381:8-1382:20 (Silzars); Tr. 1002:2-11; 1025:17-1026:3 (Eccles); LGD-245 (Mori); LGD-297 (Kido); LGD-318 (Johnson).

In addition, the Court concludes that Kido and Johnson do not disclose the required determinator and table elements. LGD's expert Mr. Eccles testified that the ROM discussed in Kido is the required "table for storing a brightness levels." As Dr. Silzars explained, however, the ROM stores coefficient values K1 and K2, which are used to create the compensating waveform. These are not brightness levels, but abstract mathematical concepts. Tr. 1384:10-1385:8 (Silzars); LGD-297 (Kido) at col. 7, ll. 61-68, col. 9, ll. 27-33; Tr. 1029:23-1032:2 (Eccles). As for the Johnson reference, LGD's expert, Mr. Eccles, identified the required determinator and table as Table 1 disclosed in Johnson.

LGD-318 (Johnson) at col. 4, l. 6 - col. 5, l. 14. However, Johnson expressly indicates that the disclosed table pertains to voltages. LGD-318 (Johnson) at col. 4, ll. 47-64; Tr. 991:11-992:2 (Eccles). A voltage is not the same as a brightness level. Tr. 1028:19-1029:2 (Eccles). Accordingly, the Court concludes that the '160 patent is not invalid as anticipated or obvious in light of Mori, Kido and Johnson, alone or in combination with each other.

B. Whether Claim 1 of the '157 Patent Is Invalid

1. Anticipation by the Shimizu reference

LGD contends that claim 1 of the '157 patent is invalid because it is anticipated by U.S. Patent No. 7,380,972 issued to Shimizu (the "Shimizu reference"). LGD contends that the Shimizu reference qualifies as prior art under Section 102(e) because it was filed on August 19, 2003, as PCT Application No. PCT/jp03/10458. LGD further contends that the Shimizu reference discloses each and every limitation of claim 1 of the '157 patent.

In response, AVO contends that the Shimizu reference is not prior art to the '157 patent, because the earliest date for which the Shimizu patent could be relied upon as prior art is March 11, 2004, the publication date of PCT Pub. No. WO2004/020899. Because the '157 patent was invented by February 6, 2004 as evidenced by the invention disclosure form for the '157 patent,

AUO contends that it cannot be invalidated by the Shimizu reference.

Section 102 provides, in pertinent part, that a "person shall be entitled to a patent," unless

(e) the invention was described in . . . (2) a patent granted on an application for patent by another filing in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for the purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

35 U.S.C. § 102(e) (emphasis added). Article 21 provides that "[t]he language . . . of the international publication is governed by the Regulations," which in turn require that "[i]f the international application is published in a language other than English, . . . the title of the invention, the abstract and any text matter pertaining to the figure or figures accompanying the abstract shall be published both in that language and in English. D.I. 1403 at Exh. G (Article 21); Exh. H (PCT Regulation 48.3(c)). Thus, the abstract and text relating to the figures in the abstract are required to be in English regardless of what language the application was published in.

In this case, only the abstract and characters accompanying the figures are in English as required by Article 21, but the remaining application, consisting of more than 45 pages, is in Japanese. The biographical data for the international

application confirms that the application was not published in English because it states that the "Publication Language" is "Japanese." D.I. 1403, Exh. I. Accordingly, the Court concludes that the earliest publication date for the Shimizu reference is the English document, PCT Pub. No. WO2004/020899, which is dated March 11, 2004. Because the '157 patent was invented before this date, the Court concludes that the Shimizu reference is not prior art, and therefore, LGD cannot establish that the '157 patent was invalid as anticipated by the Shimizu reference.

2. Obviousness with regard to the Fukayama and Sakamoto patents

LGD contends that either Fukayama alone, or in combination with Sakamoto renders claim 1 of the '157 patent obvious. The parties' dispute regarding these references primarily centers on whether the Fukayama reference, alone or in combination with Sakamoto, discloses the "does not contact" limitation in the various claim elements of the '157 patent.

LGD's expert, Mr. Smith Gillespie, contends that the "does not contact" limitation is met, because Figure 13 of Fukayama discloses that the second supporting portion "does not contact" the second constraining portion. Specifically, Mr. Smith Gillespie relies on the sentence in the Fukayama patent which explains: "Although this embodiment is similar to the first embodiment, as described in conjunction with Fig. 1, with respect to the holding of other sides of the optical sheet OPS and the

other constitutions, the columnar member may be replaced with an insertion member having a pin shape with a head which is similar to the above-mentioned insertion member BT having the pin shape with the head which is loosely engaged with a through hole formed in the optical sheets." LGD-332 at col. 18, ll. 34-43; Tr. 1121:3-13 (Smith-Gillespie).

However, the Court credits the testimony of Dr. Silzars over the testimony of Mr. Smith Gillespie with respect to this issue. As Dr. Silzars's explained, "loosely engages" and "does not contact" are not synonymous terms. Further, the Fukayama patent is directed to the secure holding of optical films. As Figure 1 shows, the optical film is "firmly fixed" by the use of adhesive tape. LGD-332 at Fig. 1, col. 15, ll. 5-7; Tr. 1412:6-16 (Silzars). While the "other sides" referred to in the sentence relied upon by Mr. Smith-Gillespie may be "loosely engaged," there is nothing in that sentence suggesting that the "firmly fixed" side may be loosely engaged.

To the extent rotation of a display device is an issue, the Court concludes that Fukayama does not disclose rotation, Tr. 1224:21-1225:6 (Smith-Gillespie), and there is no reason to combine Fukayama with Sakamoto, which does disclose rotation. Tr. 1412:6-8 (Silzars). Moreover, the '157 patent acknowledges that rotatable LCDs were known in the prior art, and this prior art including, Fukayama, was before the Examiner when he

concluded that the claims were not obvious in light of Fukayama. AUO-09 ('157 patent) at col. 1, ll. 11-12; Tr. 1222:11-1224:9 (Smith-Gillespie); Tr. 1417:1-13 (Silzars). Accordingly, the Court concludes that LGD has not established by clear and convincing evidence that the '157 patent is invalid as obvious in light of Fukayama, alone or in combination with Sakamoto.

C. Whether Claims 7 and 17 of the '506 Patent Are Invalid

LGD contends that the '506 patent is invalid as anticipated or obvious by Hewlett Packard prior art identified as HP iPAQ h2210 and h2215. LGD contends that these devices raise an on-sale bar to the '506 patent, because they have the same design as tens of thousands of products with the same product numbers sold in the United States prior to August 19, 2003. With respect to the HP iPAQ h2215 specifically, LGD presents a sales receipt which evidences that the device was sold in the United States by at least November 22, 2003. LGD contends that the '506 patent was not invented until December 16, 2003, and therefore, the HP devices constitute prior art.

In response, AUO contends that the invention date for the '506 patent was not December 16, 2003, but January 15, 2003, and the invention was diligently reduced to practice thereafter. Although AUO acknowledges that the operative date for an on-sale bar is August 19, 2003, one year prior to the filing of its United States application on August 19, 2004, AUO contends that

there is no evidence that the identified HP products were sold or offered for sale prior to August 19, 2003.

After considering the evidence presented on this issue, the Court cannot conclude that LGD has established by clear and convincing evidence that the identified HP devices are prior art that was on sale before August 19, 2003. The only concrete evidence LGD has presented concerning the sale of these specific devices is the sales receipt dated November 22, 2003. This evidence post-dates the on-sale bar.

Further, the Court is persuaded that the '506 patent is entitled to an invention date of January 15, 2003, and that the invention was diligently reduced to practice thereafter. Tr. 1469:7-1474:24, 1475:1-1479:18, 1484:4-18 (Sung); AUO-1544 to AUO-1546; AUO-1611 to AUO-1614; AUO-235; AUO-222. Therefore, the Court cannot conclude that the HP devices are prior art that anticipated or rendered obvious the invention claimed in the '506 patent.

D. Whether Claims 7 and 16 of the '629 Patent Are Invalid

LGD contends that claims 7 and 16 of the '629 patent are invalid as anticipated in light of European Patent Publication No. 887695 (the "Hirabayashi reference") and invalid as obvious in light of U.S. Patent No. 5,850,275 ("Watanabe"). LGD also raises an argument concerning the on-sale bar based upon U.S. sales of LGD Display's LT060VI and LT071VI.

1. Anticipation/Obviousness in light of Hirabayashi and Watanabe

After considering the evidence presented on this issue, the Court cannot conclude that LGD has established by clear and convincing evidence that claims 7 and 16 are invalid in light of Hirabayashi or Watanabe. To the extent LGD's argument is premised on the allegation that Hirabayashi discloses the claimed "area," the Court cannot accept LGD's argument because it is based upon a claim construction that the Court has not adopted. Further, the claims upon which claims 7 and 16 depend require the upper layer wiring material to be selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof. However, Hirabayashi discloses an upper layer of TiN, which is a ceramic compound, not a conductive material or a titanium alloy.

In addition, the Court is persuaded that the claimed invention when viewed in the context of the specification must be considered from the perspective of a two-layer structure in which the upper layer material of the dual-layer wire material does not become insoluble in an acid or alkaline etchant. Neither the Watanabe nor the Hirabayashi references expressly disclose the problem or, or solution to, an upper layer of wiring material of a dual-layer wire becoming insoluble in an acid or alkaline etchant. Indeed, Watanabe discloses only single layer wiring, Tr. 885:20-886:2 (Rubloff); Tr. 1403:7-10, 1405:20-1406:23

(Silzars), and LGD's expert agreed that the dummy patterns disclosed in the Watanabe and Hirabayashi references do not necessarily prevent the upper layer material from becoming insoluble in an acid or alkaline etchant. Tr. 880:1-881:1, 885:5-887:5 (Rubloff); Tr. 1402:3-17 (Silzars). Because the Hirabayashi and Watanabe references do not expressly or inherently disclose use of etchants that will solve the passivity problem addressed by claims 7 and 16 of the '629 patent, the Court concludes that neither Watanabe nor Hirabayashi render the claims of the '629 patent invalid.

2. On-Sale Bar

LGD contends that the '629 patent is subject to the on-sale bar in light of two LGD products, LT060V1 and LT071V1. The Court has considered the evidence presented by LGD in connection with its on-sale bar argument, and concludes that LGD cannot establish by clear and convincing evidence that the on-sale bar applies to the '629 patent. First, the Court is not persuaded that LGD has presented clear and convincing evidence that these two products were, in fact, on sale more than one year before the application resulting in the '629 patent was filed. In addition, LGD's correlation chart shows mask files associated with the identified LGD products, which differ from the mask file used by Dr. Rubloff in his analysis of these products. The mask files associated with these products confirm that the GDS data for these two

products was modified after the priority date of the '629 patent, which would not make these patents prior art to the '629 patent. However, regardless of which mask filed is used, the Court credits the testimony of Dr. Silzars, that none of the mask files associated with the identified LGD products include dummy conductive patterns that comprise at least 30% of the area in which they are situated. Tr. 1397:8-16, 1398:10-1400:13 (Silzars); AUO-1594. Accordingly, the Court concludes that LGD has not established by clear and convincing evidence invalidity based upon the on-sale bar.

IV. Inducement of Infringement

A. Applicable Law

To establish liability for inducing infringement, a patent holder must prove that "there has been direct infringement, and second, that the alleged infringer knowingly induced infringement and possessed specific intent to encourage another's infringement." MEMC Elec. Materials, Inc. v. Mitsubishi Materials Silicon Corp., 420 F.3d 1369, 1378 (Fed. Cir. 2005) (quotations omitted). That the defendant merely had knowledge of the acts alleged to constitute infringement is not enough. Rather, the "plaintiff must establish that the defendant possessed specific intent to encourage another's infringement." Power Integrations, Inc. v. Fairchild Semiconductor Int'l, Inc., 589 F. Supp. 2d 505, 511 (D. Del. 2008). In this regard, the

plaintiff has the burden of showing that the alleged infringer's actions induced infringing acts and that he knew or should have known his actions would induce actual infringement. These requirements may be shown by direct or circumstantial evidence. See Metabolite Labs., Inc. v. Lab. Corp. of Am. Holdings, 370 F.3d 1354, 1365 (Fed. Cir. 2004).

B. Whether AUO Has Established Inducement Of Infringement

Having concluded that LGD's products directly infringe the asserted patents, the Court further concludes that LGD's customers, distributors and sales representatives have directly infringed the asserted patents. The record contains an abundance of evidence in this regard, but by way of example, the Court points out Mr. Putnam's unrebutted testimony that LGD sold millions of dollars of accused products in the United States. Tr. 764:17-765:2 (Putnam); AUO-284.

In addition, the Court concludes that LGD possessed the requisite intent to induce infringement. In this regard, the Court finds that LGD actively targets the U.S. market and encourages its sales representatives and distributors to build their U.S. market¹¹ and maintains multiple U.S. locations¹²,

¹¹ See e.g., AUO-246, AUO-247; Tr. 628:8-14, 18-22, 629:3-19 (Joo Sup Kim); Tr. 490:16-24, 493:16-494:9 (Catalyst/T. Griffin); Tr. 536:22-537:7 (Avnet/S. Gereb); Tr. 548:5-21 (Dell/S. Peana); AUO-125 at Centric 000165.

¹² See e.g. AUO-819 at AUO-LGD 0013940-41; AUO-27 at Catalyst 001044; AUO-119 at AVNET007544.

employees dedicated to key customers in the U.S. and a vast U.S. sales network¹³, a technical support, warranty and repair service for its U.S. customers¹⁴, and regular contact and communication with its U.S. customers.¹⁵ LGD also provided product information and marketing materials to its U.S. customers for the purpose of encouraging U.S. sales. AUO-249, AUO-306; AUO-596; AUO-31; AUO-27; AUO-126; Tr. 499:17-503:8 (Catalyst/T. Griffin). In addition, the Court finds that the evidence demonstrates that LGD touted AUO's patented features to LGD's U.S. customers, and that based on the foregoing findings, LGD knew its customers were selling the infringing devices in the U.S. Tr. 559:8-12 (Centric Sales/Edwards); AUO-126; Tr. 545:20-547:19 (Dell/S. Peana); AUO-27 at Catalyst 001064-65; AUO-89 at LGD 190503-05. Accordingly, the Court concludes that AUO has established that LGD induces infringement of the asserted patents.

CONCLUSION

For the reasons discussed, the Court has defined the disputed terms in the asserted patents as set forth in this

¹³ See e.g. Tr. 493:1-15 (Griffing/Catalyst); Tr. 610:3-5, 601:22-603:1 (H. Lee); AUO-228 at LGD 2080258; AUO-27 at Catalyst 001043, AUO-819, AUO-974, AUO-123, AUO-20.

¹⁴ See e.g. AUO-33; AUO-255; Tr. 541:20-542:6; AUO-27; AUO-70, AUO-71; Tr. 589:16-590:16, 591:22-592:8 (Jacobson/Jabil).

¹⁵ See e.g. AUO-309; AUO-321; AUO-982; AUO-1524; AUO-249; AUO-24; Tr. 532:23-533:22 (Avnet/S. Gereb); Tr. 588:10-21 (D. Woo/Westinghouse); Tr. 539:24-540:2; AUO-315.

Memorandum Opinion. In addition, the Court concludes that AUO has established by a preponderance of the evidence that LGD literally infringes the patents asserted by AUO in this action, and that LGD has not established by clear and convincing evidence that the asserted patents are invalid.

The Court will withhold entry of a Final Judgment Order until the Phase II trial is completed.

Electronic Acknowledgement Receipt

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|---|---|
| EFS ID: | 10121605 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 18-MAY-2011 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 17:33:32 |
| Application Type: | Reexam (Third Party) |

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| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing SUPPLEMENTAL RESPONSE TO OFFICE ACTION IN EX PARTE REEXAMINATION was served upon the following:

Song K. Jung

McKenna Long & Aldridge LLP

1900 K St., N.W.

Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

May 18, 2011

Date

/Justin King/

Justin King, Reg. No. 50,464

Litigation Search Report CRU 3999

Reexam Control No. 90/009,697

TO: TUAN NGUYEN
Location: CRU
Art Unit: 3992
Date: 09/21/11

From: MANUEL SALDANA
Location: CRU 3999
MDW 7C55
Phone: (571) 272-7740

MANUEL.SALDANA@uspto.gov

Search Notes

Litigation was found for US Patent Number: 6,689,629

DOCKET 1:07CV357 (NOT CLOSED)

DOCKET 3:07CV137 (CLOSED 06/01/07).

- 1) I performed a KeyCite Search in Westlaw, which retrieves all history on the patent including any litigation.
- 2) I performed a search on the patent in Lexis CourtLink for any open dockets or closed cases.
- 3) I performed a search in Lexis in the Federal Courts and Administrative Materials databases for any cases found.
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- 5) I performed a search in Lexis in the news databases for any articles about the patent or any articles about litigation on this patent.

Date of Printing: Sep 21, 2011

KEYCITE

H US PAT 6689629 ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE, Assignee: International Business Machines (Feb 10, 2004)

History

Direct History

- => 1 ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE, US PAT 6689629, 2004 WL 247094 (U.S. PTO Utility Feb 10, 2004) (NO. 10/068500)
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AND Ruled Infringed by
- ▽ 3 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- H** 4 LIQUID-CRYSTAL DISPLAY, LIQUID-CRYSTAL CONTROL CIRCUIT, FLICKER INHIBITION METHOD, AND LIQUID-CRYSTAL DRIVING METHOD, US PAT 6778160, 2004 WL 1839025 (U.S. PTO Utility Aug 17, 2004) (NO. 09/760131)
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- ▽ 6 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- H** 7 SIGNAL TRANSMISSION DEVICE HAVING FLEXIBLE PRINTED CIRCUIT BOARDS, US PAT 7090506, 2006 WL 2358291 (U.S. PTO Utility Aug 15, 2006) (NO. 10/921462)
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AND Ruled Infringed by
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- 51 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680918 (Expert Report and Affidavit) (D.Del. Aug. 10, 2008) **Declaration of Dr. John D. Villasenor in Support of Cmo's Opening Brief on Claim Construction** (NO. 06-726, JJF)
- 52 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680919 (Expert Report and Affidavit) (D.Del. Aug. 11, 2008) **Declaration of Dr. Miltiadis Hatalis in Support of Defendants Chi Mei Optoelectronics' Proposed Claim Constructions** (NO. 06-726, JJF)
- 53 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680921 (Expert Report and Affidavit) (D.Del. Aug. 29, 2008) **Declaration of Dr. George M. Pharr** (NO. 06-726, JJF)

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- 57 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics Usa, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants; LG Philips L, 2008 WL 8096469 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Aris K. Silzars in Support of Auo's Response to Lgd's Claim Construction Briefing on Auo's Patents** (NO. 06-726-JJF, 07-357-JJF)
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- 59 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 8096470 (Expert Report and Affidavit) (D.Del. Nov. 19, 2008) **Declaration of Aris K. Silzars in Support of Auo's Motion to Compel LGD to Produce Technical Documents** (NO. 06-726-JJF, 07-357-JJF)
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- 78 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002383 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Response of Plaintiff Lg Display Co., Ltd. To Cmo's Opening Claim Construction Brief** (NO. 106CV00726)
- 79 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002384 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4,

- 2008) **Chi Mei Optoelectronics' Answering Memorandum Regarding Proposed Claim Constructions** (NO. 106CV00726)
- 80 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002385 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 10, 2008) **Plaintiff LG Display Co., Ltd.'s Brief in Support of its Motion to Strike AU Optronics Corporation's Claim Construction Briefs** (NO. 106CV00726)
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- 82 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002386 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 29, 2008) **Defendants Chi Mei Optoelectronics' Answering Brief In Opposition To Plaintiff LG Display's Motion to Strike Claim Construction Briefs** (NO. 106CV00726)
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- 98 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3242284 (Trial Motion, Memorandum and Affidavit) (D.Del. May 12, 2009) **Plaintiff LG Display Company Ltd.'s Reply Brief in Support of Its Motion to Strike or Preclude Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc. From Asserting an Advice of Cou** (NO. 106CV00726)
- 99 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3242285 (Trial Motion, Memorandum and Affidavit) (D.Del. May 12, 2009) **LG Display Co., Ltd.'s Reply Brief in Support of Its Motion to Compel Auo to Provide Knowledgeable Witnesses on Key Inducement and Damages Deposition Topics** (NO. 106CV00726)
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- Display's Technical Experts Regarding any Devices or Processes that they have not Analyzed (NO. 106CV00726)**
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- 105 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245832 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **AU Optronics' Motion in Limine No. 4 to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance By Experts on the Prior Testimony of Dr. Holmberg, Mr. Castleberry, and Mr. Ho Lee in (NO. 106CV00726)**
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- 107 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245834 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **LG Display Co., Ltd.'s Motion in Limine No. 1 to Preclude Joyce Pan and James Chen from Testifying at Trial because They Were not Timely Identified by AU Optronics Corporation (NO. 106CV00726)**
- 108 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245835 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 2 to Preclude Auo's Experts from Asserting Prior Art Against Lg Display's Patents that They Did not Address in Their Expert Reports (NO. 106CV00726)**
- 109 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORP., et al., Defendants., 2009 WL 3245836 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **LG Display Co., Ltd's Motion Inlimine No. 4 to Preclude the Introduction of Testimony from the Deposition of Third Party Catalyst Sales, Inc. Prior to Appearance At the Deposition By All Counsel (NO. 106CV00726)**
- 110 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245837 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 3 to Preclude Auo from Offering Evid-**

- ence Regarding Advice of Counsel (NO. 106CV00726)
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- 114 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245841 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 8, 2009) **Au Optronics' Response to Lg Display Co. Ltd.'s Motion in Limine No.5 to Preclude Introduction of Evidence or Opinion Testimony Concerning Electro-Static Discharge Repairs and Repair Costs** (NO. 106CV00726)
- 115 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245842 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 8, 2009) **Au Optronics' Response to Lg Display Co. Ltd.'s Motion in Limine No. 3** (NO. 106CV00726)
- 116 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245843 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Motion in Limine No.5 to Preclude Auo from Introducing Evidence or Opinion Testimony Concerning Purported Electro-Static Discharge Repairs and Repair Costs** (NO. 106CV00726)
- 117 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245844 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 5** (NO. 106CV00726)
- 118 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORP., et al., Defendants., 2009 WL 3245845 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Opposition to Au Optronics Corporation's Motion in Limine No.6 to Preclude Lgd from Relying On Certain Defenses and Evidence that Lgd Failed to Disclose During Discovery** (NO. 106CV00726)
- 119 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al.,

- Defendants., 2009 WL 3245846 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 4 to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance By Experts On the Prior Testimony of Dr. Ho** (NO. 106CV00726)
- 120 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245847 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 1** (NO. 106CV00726)
- 121 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245848 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 2 to Preclude Any Reference to the Prior Cpt Litigations** (NO. 106CV00726)
- 122 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245849 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Motion in Limine to Preclude AU Optronics Corporation from Introducing Live Testimony from Mr. Kuang-Tao ("Surf") Sung or Other Evidence Allegedly Showing Dates of Conception** (NO. 106CV00726)
- 123 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833076 (Trial Motion, Memorandum and Affidavit) (D.Del. May 10, 2010) **Memorandum of Law in Support of Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence** (NO. 106CV00726)
- 124 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833077 (Trial Motion, Memorandum and Affidavit) (D.Del. May 27, 2010) **LG Display Co., Ltd.'s Opposition to Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence** (NO. 106CV00726)
- 125 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833078 (Trial Motion, Memorandum and Affidavit) (D.Del. May 27, 2010) **Auo's Answering Brief in Opposition to Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence** (NO. 106CV00726)
- 126 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833079 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 7, 2010) **Reply Memorandum of Law in Support of Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence** (NO. 106CV00726)
- 127 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2011 WL 4043626 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 12, 2011) **Memorandum of Law in Support of Intervenor Anvik Corporation's Motion for Reconsideration or Reargument** (NO. 06-726-LPS, 07-357-LPS)
- 128 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2011 WL 4043622 (Trial Motion, Memorandum and Affi-

davit) (D.Del. Feb. 7, 2011) **Intervenor Anvik Corporation's Reply Memorandum of Law in Support of Motion for Reconsideration or Reargument** (NO. 06-726-LPS, 07-357-LPS)

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- 129 John D. Villasenor, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877461 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of John D. V** (NO. 106CV00726)
- 130 Pochi Yeh, curriculum vitae filed in LG. Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889166 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of Pochi Yeh** (NO. 106CV00726)
- 131 Miltiadis K. Hatalis, curriculum vitae filed in LG,Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889167 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of Miltiadis K. Hatalis** (NO. 106CV00726)
- 132 David A. Eccles, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877462 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of David A. Eccles** (NO. 106CV00726)
- 133 Allan R. Kmetz, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877463 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of Allan R. Kmetz** (NO. 106CV00726)
- 134 George M. Pharr, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6882352 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of George M. Pharr** (NO. 106CV00726)
- 135 Tsu-Jae King Liu, curriculum vitae filed in Lg. Philips Lcd Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2010 WL 5817594 (Court-filed Expert Resume) (D.Del. Mar. 2, 2010) **Expert Resume of Tsu-Jae King Liu** (NO. 106CV00726)

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- 136 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159025 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 137 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159026 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 138 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159027 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 139 LG PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159028 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 140 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159029 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 141 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159030 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 142 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159031 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)

- 143 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159032 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 144 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159033 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 145 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159034 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 146 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159035 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 147 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159036 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 148 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159037 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 149 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159038 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 150 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159039 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 151 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159040 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 152 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159041 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 153 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159042 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 154 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159043 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 155 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159044 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 156 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159045 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 157 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159046 (Trial Filing) (D.Del. Aug. 6, 2008) **Joint Claim Construction Statement - Exhibit B LG Display USP 5,019,002** (NO. 06CV00726)
- 158 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159047 (Trial Filing) (D.Del. Aug. 6, 2008) **Joint Claim Construction Statement - Exhibit C LG Display USP 5,825,449** (NO. 06CV00726)
- 159 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159048 (Trial Filing) (D.Del. Aug. 6, 2008) **Joint Claim Construction Statement - Exhibit D LG Display USP 6,664,569** (NO. 06CV00726)
- 160 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159049 (Trial Filing) (D.Del. Aug. 6, 2008) **Joint Claim Construction Statement - Exhibit E LG Display USP 6,803,984** (NO. 06CV00726)
- 161 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008

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- 162 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159051 (Trial Filing) (D.Del. Aug. 6, 2008) **Joint Claim Construction Statement - Exhibit G LG Display USP 6,815,321** (NO. 06CV00726)
- 163 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159052 (Trial Filing) (D.Del. Aug. 6, 2008) **Joint Claim Construction Statement - Exhibit H LG Display USP 7,176,489** (NO. 06CV00726)
- 164 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 7411552 (Trial Filing) (D.Del. Nov. 9, 2010) **Joint Status Report** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)

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- 165 LG.PHILIPS LCD CO. LTD. v. CHI MEI OPTOELECTRONICS CORPORATION ET AL, NO. 1:06cv00726 (Docket) (D.Del. Dec. 1, 2006)
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Expert Court Documents (U.S.A.)

D.Del. Expert Testimony

- 167 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680917 (Expert Report and Affidavit) (D.Del. Aug. 10, 2008) **Declaration of Dr. Pochi Yeh** (NO. 06-726, JJF)
- 168 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680918 (Expert Report and Affidavit) (D.Del. Aug. 10, 2008) **Declaration of Dr. John D. Villasenor in Support of Cmo's Opening Brief on Claim Construction** (NO. 06-726, JJF)
- 169 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680919 (Expert Report and Affidavit) (D.Del. Aug. 11, 2008) **Declaration of Dr. Miltiadis Hatalis in Support of Defendants Chi Mei Optoelectronics' Proposed Claim Constructions** (NO. 06-726, JJF)
- 170 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680921 (Expert Report and Affidavit) (D.Del. Aug. 29, 2008) **Declaration of Dr. George M. Pharr** (NO. 06-726, JJF)
- 171 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680920 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of David Eccles** (NO. 06-726, JJF)

- 172 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680922 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Dr. Allan R. Kmetz** (NO. 06-726, JJF)
- 173 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680923 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Dr. Pochi Yeh in Support of Responsive Brief** (NO. 06-726, JJF)
- 174 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics Usa, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants; LG Philips L, 2008 WL 8096469 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Aris K. Silzars in Support of Auo's Response to Lgd's Claim Construction Briefing on Auo's Patents** (NO. 06-726-JJF, 07-357-JJF)
- 175 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 7505544 (Expert Report and Affidavit) (D.Del. Oct. 31, 2008) **Supplemental Declaration of Aris K. Silzars in Support of Au Optronics' Reply Brief in Support of Its Motion to Compel LGD to Produce Complete GDS Files** (NO. 06-726-JJF, 07-357-JJF)
- 176 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 8096470 (Expert Report and Affidavit) (D.Del. Nov. 19, 2008) **Declaration of Aris K. Silzars in Support of Auo's Motion to Compel LGD to Produce Technical Documents** (NO. 06-726-JJF, 07-357-JJF)
- 177 LG DISPLAY CO., LTD., v. AU OPTRONICS CORPORATION and Au Optronics Corporation America et al., 2009 WL 5850939 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,019,002** (NO. 06CV00726)
- 178 LG DISPLAY CO., LTD., v. AU OPTRONICS CORPORATION and Au Optronics Corporation America., 2009 WL 5850940 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Regarding Invalidity of United States Patent Number 7,218,374 of Lawrence Tannas, Jr.** (NO. 06CV00726)
- 179 LG DISPLAY CO., LTD., v. AU OPTRONICS CORPORATION and Au Optronics Corporation America., 2009 WL 5850941 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Numbers 5,905,274, 6,815,321, and 7,176,489** (NO. 06CV00726)
- 180 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2009 WL 6869995 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,825,449** (NO. 06CV00726)
- 181 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA,

- Inc., Defendants., 2010 WL 3740722 (Expert Report and Affidavit) (D.Del. Aug. 9, 2010) **Declaration of Dr. Aris K. Silzars in Support of Au Optronics Corporation's Reply Brief in Support of Its Motion for Permanent Injunction** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 182 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 3740723 (Expert Report and Affidavit) (D.Del. Sep. 8, 2010) **Amended Declaration of Jonathan D. Putnam in Support of AU Optronics Corporation's Reply Brief in Support of its Motion for Permanent Injunction** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)

D.Del. Trial Motions, Memoranda And Affidavits

- 183 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002378 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 11, 2008) **Memorandum In Support of Defendants Chi Mei Optoelectronics' Proposed Claim Constructions** (NO. 106CV00726)
- 184 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002380 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Auo's Response To Lgd's Claim Construction Briefing On Auo's Patents** (NO. 106CV00726)
- 185 LG DISPLAY CO., Ltd., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; CHI, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002381 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Auo's Responsive Claim Construction Brief for Lg Display's Patents** (NO. 106CV00726)
- 186 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002382 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Response of Plaintiff Lg Display Co., Ltd. To Auo's Opening Claim Construction Brief** (NO. 106CV00726)
- 187 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002383 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Response of Plaintiff Lg Display Co., Ltd. To Cmo's Opening Claim Construction Brief** (NO. 106CV00726)
- 188 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002384 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Chi Mei Optoelectronics' Answering Memorandum Regarding Proposed Claim Constructions** (NO. 106CV00726)
- 189 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002385 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 10, 2008) **Plaintiff LG Display Co., Ltd.'s Brief in Support of its Motion to Strike AU Optronics Corporation's Claim Construction Briefs** (NO. 106CV00726)

- 190 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6137427 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 10, 2008) **Plaintiff Lg Display Co., Ltd.'s Brief in Support of Its Motion to Strike Chi Mei Optoelectronics Corporation's Claim Construction Briefs** (NO. 06-726, JJF)
- 191 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 1347872 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 20, 2009) **Plaintiff Lg Display's Opening Brief in Support of its Motion to Compel Au Optronics Corporation and Chi Mei Optoelectronics Corporation to Provide Knowledgeable Deposition Witnesses and for Entry of** (NO. 106CV00726)
- 192 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 1347876 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 6, 2009) **Defendant Au Optronics Corporation's Answering Brief in Opposition to Plaintiff Lg Display Co., Ltd.'s Motion to Compel Au to Provide Knowledgeable Deposition Witnesses and for Entry of Protective Or** (NO. 106CV00726)
- 193 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation, and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 1347859 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 17, 2009) **Defendant AU Optronics Corporation's Corrected Answering Brief in Opposition to Plaintiff's Motion to Strike Advice of Counsel Defense or in the Alternative, to Compel Production of Documents, Witness** (NO. 106CV00726)
- 194 LG DISPLAY CO., LTD., Plaintiff, v. AU OPIRONICS CORPORATION; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation, and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 1347866 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 17, 2009) **Defendant AU Optronics Corporation's Answering Brief in Opposition to Plaintiff Lg Display Co., Ltd.'s Motion to Compel Additional Correlation Charts, Technical Documents, and Damages Discovery** (NO. 106CV00726)
- 195 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and Lg Display America, Inc., Defendants., 2009 WL 3242276 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 3 to Exclude Evidence of LG Display Settlement Agreements** (NO. 106CV00726)
- 196 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and CHI Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242277 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 4 to Exclude Testimony By Lgd's Expert Witness Arthur Cobb Due to Failure to Comply with the Requirements of FRCP 26** (NO. 106CV00726)
- 197 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTONICS CORPORATION, et al.,

- Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242278 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 5 to Preclude Lg Display from Presenting Evidence or Argument Regarding the Supplemental Expert Report of Dr. Elliott Schlam and to Strike the Report** (NO. 106CV00726)
- 198 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242279 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No.6 to Preclude Lg Display Form Presenting Evidence or Argument Regarding the Rebuttal Expert Reports of Dr. Elliott Schlam and to Strike the Reports** (NO. 106CV00726)
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- 200 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORAION, et al., Defendants., 2009 WL 3242286 (Trial Motion, Memorandum and Affidavit) (D.Del. May 13, 2009) **LG Display Co., Ltd.'s Opposition to AUO's Motion to Supplement Briefing of Its Motion to Preclude LG Display's Reliance On Invalidating Prior Art** (NO. 106CV00726)
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- 217 George M. Pharr, curriculum vitae filed in LG. Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6882352 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of George M. Pharr** (NO. 106CV00726)
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- 222 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
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US District Court Civil Docket

**U.S. District - Delaware
(Wilmington)**

1:07cv357

Au Optronics Corporation v. Lg.Philips Lcd Co Ltd et al

This case was retrieved from the court on Friday, March 04, 2011

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|---|--------------------------------|
| Date Filed: 06/06/2007 | Class Code: |
| Assigned To: Judge Leonard P Stark | Closed: No |
| Referred To: | Statute: 35:271 |
| Nature of suit: Patent (830) | Jury Demand: Defendant |
| Cause: Patent Infringement | Demand Amount: \$0 |
| Lead Docket: 1:06-cv-00726-LPS | NOS Description: Patent |
| Other Docket: 1:06-cv-00726-LPS | |
| 1:08-cv-00355-LPS | |
| 1:10-cv-00706 | |
| Jurisdiction: Federal Question | |

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| Date | # | Proceeding Text | Source |
|------------|----|--|--------|
| 06/06/2007 | 49 | Record of case transferred in from District of Wisconsin(Western); Case Number in Other District: 07-C-137. Copy of Docket Sheet and original file with documents numbered 1-49 attached. (Attachments: # 1 DI #1# 2 DI #2# 3 Exhibit A to DI #2# 4 Exhibit B to DI #2# 5 Exhibit C to DI #2# 6 DI #3# 7 DI #4# 8 DI #5# 9 DI #6# 10 DI #7# 11 DI #8# 12 DI #9# 13 DI #10# 14 DI #11# 15 DI #12# 16 DI #13# 17 DI #14# 18 DI #15# 19 DI #16# 20 DI #17# 21 DI #18# 22 DI #19# 23 DI #20# 24 DI #21# 25 DI #22# 26 DI #23# 27 DI #24- SEALED DOCUMENT# 28 DI #25# 29 DI #26# 30 DI #27# 31 DI #28# 32 DI #29# 33 Exhibit A to DI #29# 34 Exhibit B to DI #29# 35 Exhibit C to DI #29# 36 Exhibit D to DI #29# 37 Exhibit E to DI #29# 38 DI #30# 39 DI #31# 40 DI #32- SEALED DOCUMENT# 41 DI #33# 42 DI #34# 43 DI #35# 44 DI #36# 45 DI #37# 46 DI #38# 47 DI #39# 48 Exhibit A to DI #39# 49 DI #40# 50 DI #41# 51 DI #42# 52 DI #43# 53 DI #44# 54 DI #45# 55 DI #46# 56 Exhibit A to DI #46# 57 Exhibit B to DI #46# 58 DI #47# 59 DI #48# 60 DI #49)(ead) (Entered: 06/08/2007) | |
| 06/06/2007 | -- | Order granting Motion To Transfer matter to U.S. District Court for the District of Delaware, signed by Judge Shabaz on 5/30/07 in U.S.D.C., Wisconsin(Western) - DI # in other district: 49. (ead) (Entered: 06/08/2007) | |
| 06/06/2007 | 50 | COMPLAINT filed against LG.Philips LCD Co. Ltd., LG.Philips LCD America - - filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 3/8/07 as DI #2)(Attachments: # 1 Civil Cover Sheet)(ead) (Entered: 06/08/2007) | |
| 06/06/2007 | 51 | MOTION to Dismiss for Improper Venue - filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI #6) (ead) (Entered: 06/08/2007) | |
| 06/06/2007 | 52 | OPENING BRIEF in Support re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI #7) (ead) (Entered: 06/08/2007) | |
| 06/06/2007 | 53 | AFFIDAVIT of Dong Hoon Han- filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI #8)(ead) (Entered: 06/08/2007) | |
| 06/06/2007 | 54 | ANSWERING BRIEF in Opposition re 51 MOTION to Dismiss for Improper Venue filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 4/18/07 as DI #27) (ead) (Entered: 06/08/2007) | |
| 06/06/2007 | 55 | REPLY BRIEF re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 4/30/07 as DI #31)(ead) (Entered: 06/08/2007) | |
| 06/06/2007 | 56 | REPLY BRIEF re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. CORRECTED (Filed in USDC/WD/WI on 5/3/07 as DI #36) (ead) (Entered: 06/08/2007) | |
| 06/06/2007 | 57 | MOTION to Compel LG.Philips LCD America to Respond to Requests for Production and Interrogatories and for Other Relief - filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI #41) (ead) (Entered: 06/08/2007) | |

- 06/06/2007 58 OPENING BRIEF in Support re 57 MOTION to Compel filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI #42) (ead) (Entered: 06/08/2007)
- 06/06/2007 59 AFFIDAVIT of James R. Troupis re 57 MOTION to Compel filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI #43) (ead) (Entered: 06/08/2007)
- 06/06/2007 60 AFFIDAVIT of David W. Panneck re 57 MOTION to Compel filed by AU Optronics Corporation. (Attachments: # 1 Notice of Filing of Papaer Documents- Exhibits A-G) (Filed in USDC/WD/WI on 5/18/07 as DI #44)(ead) (Entered: 06/08/2007)
- 06/06/2007 61 ANSWERING BRIEF in Opposition re 57 MOTION to Compel filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 5/22/07 as DI #45) (ead) (Entered: 06/08/2007)
- 06/06/2007 62 AFFIDAVIT of Nicole Talbott Settle re 61 Answering Brief in Opposition filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 5/22/07 as DI #46) (ead) (Entered: 06/08/2007)
- 06/06/2007 63 NOTICE of filing the following document(s) in paper format: Exhibits A-T to Declaration of David W. Panneck (DI #28 Filed in USDC/WD/WI on 4/18/07)). Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation. (ead) (Entered: 06/08/2007)
- 06/06/2007 64 NOTICE of filing the following document(s) in paper format: Exhibits A-W to Declaration of Paul Barbato. (DI #38 Filed in USDC/WD/WI on 5/7/07) Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation. (ead) (Entered: 06/08/2007)
- 06/06/2007 65 NOTICE of filing the following document(s) in paper format: Exhibits A-G to Declaration of David W. Panneck. (Filed as DI #44 in USDC/WD/WI on 5/18/07) Original document (s) on file in Clerk's Office. Notice filed by AU Optronics Corporation (ead) (Entered: 06/08/2007)
- 06/08/2007 66 Local Counsel Letter sent to James D. Peterson. Notice of Compliance deadline set for 7/12/2007. (ead) (Entered: 06/08/2007)
- 06/08/2007 67 Local Counsel Letter sent to James P. Troupis. Notice of Compliance deadline set for 7/12/2007. (ead) (Entered: 06/08/2007)
- 06/08/2007 68 Report to the Commissioner of Patents and Trademarks for Patent/Trademark Number(s) 6,689,629; 6,976,781; 6,778,160; (ead) (Entered: 06/08/2007)
- 06/08/2007 69 SEALED AFFIDAVIT of R. Tyler Goodwyn in Support of LG.Philips LCD Co. Ltd's Motion to Transfer to the District of Delaware filed by LG.Philips LCD Co. Ltd. (Filed in USDC/WD/WI on 4/16/07 as DI #24) (ead) (Entered: 06/08/2007)
- 06/08/2007 70 SEALED AFFIDAVIT of Dong Hoon Han in Support of LG.Philips LCD America's Motion to Dismiss re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (ead) (Entered: 06/08/2007)
- 06/08/2007 71 NOTICE of Appearance by Richard D. Kirk on behalf of LG.Philips LCD Co. Ltd., LG.Philips LCD America (Kirk, Richard) (Entered: 06/08/2007)
- 06/11/2007 72 ANSWER to Complaint with Jury Demand, COUNTERCLAIM against AU Optronics Corporation by LG.Philips LCD America. (Attachments: # 1 Certificate of Service)(Kirk, Richard) (Entered: 06/11/2007)
- 06/11/2007 73 ANSWER to Complaint with Jury Demand, COUNTERCLAIM against AU Optronics Corporation America, Chi Mei Optoelectronics Corporation, CHI MEI OPTOELECTRONICS USA, INC., AU Optronics Corporation by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A# 2 Exhibit B# 3 Exhibit C# 4 Certificate of Service)(Kirk, Richard) (Entered: 06/11/2007)
- 06/12/2007 74 PRAECIPE filed by Richard D. Kirk on behalf of LG.Philips LCD Co. Ltd. requesting Clerk to issue Summonses (Attachments: # 1 Certifidate of Service)(Kirk, Richard) (Entered: 06/12/2007)
- 06/12/2007 -- Summons Issued as to AU Optronics Corporation America on 6/12/2007; CHI MEI OPTOELECTRONICS USA, INC. on 6/12/2007. (eew) (Entered: 06/12/2007)
- 06/13/2007 -- Summons Issued as to Chi Mei Optoelectronics Corporation on 6/13/2007. (eew) (Entered: 06/13/2007)
- 06/14/2007 75 Return of Service Executed by LG.Philips LCD Co. Ltd.. CHI MEI OPTOELECTRONICS USA, INC. served on 6/12/2007, answer due 7/2/2007. (Kirk, Richard) (Entered: 06/14/2007)
- 06/14/2007 76 NOTICE OF SERVICE OF ANSWER TO COMPLAINT WITH COUNTERCLAIMS ON DEFENDANT CHI MEI OPTOELECTRONICS CORPORATION PURSUANT TO 10 DEL.C. SECTION 3104 by LG.Philips LCD Co. Ltd. (Kirk, Richard) (Entered: 06/14/2007)

- 06/14/2007 77 NOTICE OF SERVICE OF ANSWER TO COMPLAINT WITH COUNTERCLAIMS ON DEFENDANT AU OPTRONICS CORPORATION AMERICA A/K/A AU OPTRONICS AMERICA, INC. PURSUANT TO 10 DEL.C.SECTION 3104 by LG.Philips LCD Co. Ltd. (Kirk, Richard) (Entered: 06/14/2007)
- 06/18/2007 78 NOTICE of Appearance by Ashley Blake Stitzer on behalf of LG.Philips LCD Co. Ltd., LG.Philips LCD America (Stitzer, Ashley) (Entered: 06/18/2007)
- 06/18/2007 79 NOTICE OF SERVICE of LG. PHILIPS LCD'S OBJECTIONS TO AU OPTRONICS CORPORATION'S SECOND SET OF INTERROGATORIES (NO. 17) by LG.Philips LCD Co. Ltd..(Stitzer, Ashley) (Entered: 06/18/2007)
- 06/21/2007 80 ANSWER to Counterclaim, COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation America.(Pascale, Karen) (Entered: 06/21/2007)
- 06/21/2007 81 ANSWER to Counterclaim of LG.Philips LCD Co., LTD. , COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation. (Attachments: # 1 Exhibit A-C)(Pascale, Karen) (Entered: 06/21/2007)
- 06/21/2007 82 ANSWER to Counterclaim of LG.Philips LCD America, Inc. , COUNTERCLAIM against LG.Philips LCD America by AU Optronics Corporation. (Attachments: # 1 Exhibit A-C) (Pascale, Karen) (Entered: 06/21/2007)
- 06/26/2007 83 Joint MOTION to Consolidate Cases - filed by AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America. (Attachments: # 1 Text of Proposed Order Of Consolidation# 2 Certificate of Compliance Local Rule 7.1.1 Statement)(Pascale, Karen) (Entered: 06/26/2007)
- 06/26/2007 84 NOTICE of Joint Motion To Consolidate by AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America re 83 MOTION to Consolidate Cases (Pascale, Karen) (Entered: 06/26/2007)
- 06/26/2007 85 Joint STATEMENT re 83 MOTION to Consolidate Cases, 84 Notice (Other) Following Transfer Pursuant To Local Rule 81.2 by AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America. (Pascale, Karen) (Entered: 06/26/2007)
- 06/29/2007 86 NOTICE OF SERVICE of LG.PHILIPS LCD CO., LTD.'S OBJECTIONS TO AU OPTRONICS CORPORATION'S SECOND SET OF DOCUMENTS REQUESTS (NOS. 143-152) by LG.Philips LCD Co. Ltd..(Stitzer, Ashley) (Entered: 06/29/2007)
- 07/02/2007 87 ANSWER to Counterclaim, COUNTERCLAIM CHI MEI OPTOELECTRONICS USA, INC.'S ANSWER, AFFIRMATIVE DEFENSES AND COUNTERCLAIMS TO THE COUNTERCLAIMS OF LG. PHILIPS LCD CO., LTD. against LG.Philips LCD Co. Ltd. by CHI MEI OPTOELECTRONICS USA, INC..(Rovner, Philip) (Entered: 07/02/2007)
- 07/03/2007 88 MOTION for Pro Hac Vice Appearance of Attorney M. Craig Tyler, Brian D. Range and Julie M. Holloway - filed by AU Optronics Corporation America, AU Optronics Corporation. (Pascale, Karen) (Entered: 07/03/2007)
- 07/05/2007 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person, MOTION to Dismiss for Insufficiency of Service of Process - filed by Chi Mei Optoelectronics Corporation. (Rovner, Philip) (Entered: 07/05/2007)
- 07/05/2007 -- Set Briefing Schedule: re 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person MOTION to Dismiss for Insufficiency of Service of Process. Answering Brief due 7/23/2007. (lec) (Entered: 07/06/2007)
- 07/06/2007 90 Joint MOTION to Consolidate Cases - filed by LG. Philips LCD America, Inc., AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd.. (Pascale, Karen) (Entered: 07/06/2007)
- 07/06/2007 91 Joint NOTICE of Motion (Re-Notice) and Withdrawal of Motion by LG. Philips LCD America, Inc., AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd. re 92 Joint MOTION to Consolidate Cases, 90 MOTION to Consolidate Cases (Pascale, Karen) (Entered: 07/06/2007)
- 07/10/2007 92 Amended ANSWER to Counterclaim of LG. Philips LCD Co. Ltd. , COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation America.(Pascale, Karen) (Entered: 07/10/2007)
- 07/10/2007 93 Amended ANSWER to Counterclaim of LG.Philips LCD Co. Ltd. , COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation. (Attachments: # 1 Exhibit A - C) (Pascale, Karen) (Entered: 07/10/2007)
- 07/10/2007 -- SO ORDERED D.I. 88 MOTION for Pro Hac Vice Appearance of Attorney M. Craig Tyler, Brian D. Range and Julie M. Holloway filed by AU Optronics Corporation, AU Optronics

- Corporation America. Signed by Judge Joseph J. Farnan, Jr. on 7/10/2007. (lec)
(Entered: 07/10/2007)
- 07/11/2007 -- ORAL ORDER re 57 MOTION to Compel filed by AU Optronics Corporation. This motion will be decided after a decision has been rendered on the pending Motion to Consolidate. Therefore, the Notice for the Motion Day Hearing of July 13, 2007 is cancelled. Ordered by Judge Joseph Farnan this 11th day of July, 2007. (dlk) (Entered: 07/11/2007)
- 07/11/2007 94 ANSWER to Counterclaim filed by AU Optronics Corporation by LG.Philips LCD America. (Kirk, Richard) (Entered: 07/11/2007)
- 07/12/2007 95 NOTICE of Withdrawal of Motion to Compel LG.Philips LCD America to Respond to Requests for Production and Interrogatories and for Other Relief by AU Optronics Corporation re 57 MOTION to Compel (Pascale, Karen) (Entered: 07/12/2007)
- 07/16/2007 96 Disclosure Statement pursuant to Rule 7.1 filed by AU Optronics Corporation, AU Optronics Corporation America. (Pascale, Karen) (Entered: 07/16/2007)
- 07/19/2007 97 Disclosure Statement pursuant to Rule 7.1 filed by Chi Mei Optoelectronics Corporation identifying CHI MEI CORPORATION as Corporate Parent. (Rovner, Philip) (Entered: 07/19/2007)
- 07/19/2007 98 Disclosure Statement pursuant to Rule 7.1 filed by CHI MEI OPTOELECTRONICS USA, INC. identifying CMO JAPAN CO., LTD. as Corporate Parent. (Rovner, Philip) (Entered: 07/19/2007)
- 07/19/2007 99 ANSWERING BRIEF in Opposition re 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person MOTION to Dismiss for Insufficiency of Service of Process filed by LG.Philips LCD America, LG.Philips LCD Co. Ltd..Reply Brief due date per Local Rules is 7/30/2007. (Attachments: # 1 Certificate of Service)(Stitzer, Ashley) (Entered: 07/19/2007)
- 07/19/2007 100 ORDER GRANTING D.I. 90 Motion to Consolidate Cases. This case is consolidated into Civil Action No. 06-726-GMS. All future filings shall be captioned and filed only in the consolidated lead case. Signed by Judge Joseph J. Farnan, Jr. on 07/19/2007. (dlk) (Entered: 07/23/2007)
- 07/19/2007 -- Case associated with lead case: Create association to 1:06-cv-00726-GMS. (dlk) (Entered: 07/23/2007)
- 07/23/2007 -- Case reassigned to Judge Gregory M. Sleet. Please include the initials of the Judge (GMS) after the case number on all documents filed. (Please note all future filings shall still be captioned and filed only in the consolidated lead case 1:06-cv-00726) (rjb) (Entered: 07/23/2007)
- 07/23/2007 101 ANSWER to Counterclaim of defendant Chi Mei Optoelectronics USA, Inc. by LG.Philips LCD America. (Attachments: # 1 certificate of service)(Kirk, Richard) (Entered: 07/23/2007)
- 07/24/2007 102 ANSWER to Counterclaim OF AU OPTRONICS CORPORATION AMERICA , COUNTERCLAIM against AU Optronics Corporation America by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A)(Kirk, Richard) (Entered: 07/24/2007)
- 07/24/2007 103 ANSWER to Counterclaim OF AU OPTRONICS CORPORATION , COUNTERCLAIM against AU Optronics Corporation by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A)(Kirk, Richard) (Entered: 07/24/2007)
- 09/28/2007 104 NOTICE of AU Optronics Corporation's Reply to LG.Philips LCD Co., Ltd's Additional Counterclaims by AU Optronics Corporation re 138 Answer to Counterclaim (Pascale, Karen) (Entered: 09/28/2007)
- 12/14/2007 -- Case reassigned to Judge Joseph J. Farnan, Jr. Please include the initials of the Judge (JJF) after the case number on all documents filed. (rjb) (Entered: 12/14/2007)
- 03/13/2008 -- CORRECTING ENTRY: Amended the party name for plaintiff and counterclaim plaintiff LG. Philips LCD Co., LTD to LG Display Co., Ltd., per DI # 161 ;and amended defendant and counterclaim plaintiff LG. Philips LCD America, Inc. to LG Display America, Inc., per DI # 161 . Also confirmed with counsel as to how the amended caption to read. (nms) (Entered: 03/13/2008)
- 03/28/2008 105 NOTICE of Service of AU Optronics Corporation's First Set of Requests for Production of Documents and Things to LG Display Co., Ltd., Nos. 1-110; AU Optronics Corporation's Second Set of Requests for Production of Documents to LG Display Co., Ltd. (Nos. 111-208); AU Optronics Corporation's First Set of Interrogatories to LG Display Co., Ltd. (Nos. 1-13), AU Optronics Corporation's Second Set of Interrogatories to LG Display Co., Ltd. (Nos. 14-23), and AU Optronics Corporation's Notice of Rule 30(b)(6) Deposition of Plaintiff LG Display Co. Ltd. by Au Optronics Corporation, AU Optronics Corporation

- America, AU Optronics Corporation re (1 in 1:06-cv-00726-JJF) Complaint, (Keller, Karen) (Entered: 03/28/2008)
- 04/16/2008 106 TRANSCRIPT of Status Telephone Conference held on 2/14/2008 before Judge Farnan. Court Reporter: Dale C. Hawkins (Hawkins Reporting). (Transcript on file in Clerk's Office) (nms) (Entered: 04/16/2008)
- 04/25/2008 107 NOTICE OF SERVICE of Defendant AU Optronics Corporation's Objections and Responses to Plaintiff LG Display Co., Ltd.'s First Set of Interrogatories (Nos. 1-19); and Defendant AU Optronics Corporation's Objections and Responses to Plaintiff LG Display Co., Ltd.'s First Set of Requests for the Production of Documents and Things (Nos. 1-83) by AU Optronics Corporation.(Pascale, Karen) (Entered: 04/25/2008)
- 05/01/2008 108 Letter to The Honorable Mary Pat Thyng from Karen L. Pascale regarding production of license agreements - re (191 in 1:06-cv-00726-JJF) Letter. (Pascale, Karen) (Entered: 05/01/2008)
- 06/23/2008 109 NOTICE OF SERVICE of LG Display Co., Ltd.'s Objections and Responses to Attachment A to AU Optronics Corporation's Notice of Rule 30(b)(6) Deposition by LG Display Co., Ltd.. (Attachments: # 1 Certificate of Service)(Kirk, Richard) (Entered: 06/23/2008)
- 07/17/2008 110 NOTICE OF SERVICE of AU Optronics Corporations Responses and Objections to Plaintiff LG Display Co., Ltd.s Second Set of Interrogatories (Nos. 20-29); and AU Optronics Corporations Supplemental Objections and Responses to Plaintiff LG Display Co., Ltd.s First Set of Interrogatories (Nos. 1-19) by AU Optronics Corporation.(Pascale, Karen) (Entered: 07/17/2008)
- 07/30/2008 -- ORAL ORDER: LG Display Co., Ltd. shall file a response to the July 30, 2008 letter (D.I. 364 in 06-726) by Chi Mei Optoelectronics Corp. no later than 9:00 a.m. on July 31, 2008. Ordered by Judge Joseph J. Farnan, Jr. on 7/30/2008. (dlk) (Entered: 07/30/2008)
- 09/08/2008 -- ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding MOTION to Consolidate Cases filed by LG Display Co., Ltd., MOTION for Leave to File Second Amended Answer to AU Optronics Corporation's Amended Counterclaims and Additional Counterclaims filed by LG Display Co., Ltd., and the MOTION to Consolidate Cases DEFENDANT CHI MEI OPTOELECTRONICS CORPORATION'S MOTION TO CONSOLIDATE AND TO EXTEND DISCOVERY LIMITS filed by Chi Mei Optoelectronics Corporation. The motions will be decided on the papers submitted. Ordered by Judge Joseph J. Farnan, Jr. on 09/08/2008. (dlk) (Entered: 09/08/2008)
- 09/08/2008 -- ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding the CHI MEI OPTOELECTRONICS CORPORATION'S MOTION TO LIMIT THE NUMBER OF PATENTS-IN-SUIT AND STAY THE REMAINDER filed by Chi Mei Optoelectronics Corporation. A decision is deferred pending possible oral argument. Ordered by Judge Joseph J. Farnan, Jr. on 9/8/08. (dlk) (Entered: 09/08/2008)
- 09/08/2008 -- ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding Motion to Compel Chi Mei Optoelectronics Corporation to Provide Discovery filed by LG Display Co., Ltd., PLAINTIFFS CHI MEI OPTOELECTRONICS' MOTION TO COMPEL DEFENDANTS LG DISPLAY TO RESPOND TO INTERROGATORIES filed by Chi Mei Optoelectronics USA Inc.(D.I. 98 in 08-cv-00355-JJF), Chi Mei Optoelectronics Corporation, and DEFENDANTS CHI MEI OPTOELECTRONICS' MOTION TO COMPEL PLAINTIFFS LG DISPLAY TO PRODUCE DOCUMENTS RESPONSIVE TO DOCUMENT REQUEST NO. 98 filed by Chi Mei Optoelectronics Corporation. The Court will decide these motions on the papers submitted. Ordered by Judge Joseph J. Farnan, Jr. on 9/8/08. (dlk) (Entered: 09/08/2008)
- 11/20/2008 111 MOTION for Leave to File A First Amended Answer and Joinder In CMO's Motion For Leave To File A First Amended Answer - filed by AU Optronics Corporation America, AU Optronics Corporation. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Local Rule 7.1.1 Statement)(Lundgren, Andrew) (Entered: 11/20/2008)
- 11/20/2008 112 NOTICE OF MOTION by AU Optronics Corporation America, AU Optronics Corporation re 111 MOTION for Leave to File ; Requesting the following Motion Day: December 19, 2008 (Lundgren, Andrew) Modified on 11/25/2008 (nms). (Entered: 11/20/2008)
- 12/04/2008 113 Amended NOTICE of [AUO's Amended Notice of Subpoena And Deposition to Centric Technical Sales on December 17, 2008] by AU Optronics Corporation America, AU Optronics Corporation re (234 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 114 Amended NOTICE of Subpoena And Deposition to Bell Microproducts, Inc. on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (230 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)

- 12/04/2008 115 Amended NOTICE of Subpoena And Deposition to Axis Group, Inc. on December 17, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (229 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 116 Amended NOTICE of Subpoena And Deposition to Avnet, Inc on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (228 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 117 Amended NOTICE of Subpoena And Deposition to Philips Electronics N.A., Inc. on December 17, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (344 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 118 Amended NOTICE of Subpoena And Deposition to LG Electronics Alabama, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (341 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 119 Amended NOTICE of Subpoena And Deposition to LG Electronics USA, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (342 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 120 Amended NOTICE of Subpoena And Deposition to LG Infocomm, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (340 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 121 Amended NOTICE of Subpoena And Deposition to LG International (America), Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (357 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 122 Amended NOTICE of Subpoena And Deposition to Catalyst Sales, Inc. on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (233 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/08/2008 -- ORAL ORDER: The Court has reviewed the parties numerous email submissions regarding discovery disputes; therefore, Counsel shall appear for the December 19, 2008 Motion Day Hearing at 10:00 AM in Courtroom 4B before Judge Joseph J. Farnan, Jr. regarding these disputes. The non-prevailing party will be assessed all fees and costs associated with these disputes. Ordered by Judge Joseph J. Farnan, Jr. on 12/8/2008. (dlk) (Entered: 12/08/2008)
- 12/08/2008 -- CORRECTING ENTRY: The 12/8/2008 Oral Order has been corrected to note that the non-prevailing party will be assessed fees and costs associated with email discovery dispute. Associated Cases: 1:07-cv-00357-JJF, 1:06-cv-00726-JJF(dlk) (Entered: 12/08/2008)
- 12/12/2008 123 NOTICE of [AUO's Notice of Withdrawal of Amended Notice of Subpoena and Deposition of Philips Electronics N.A., Inc.] by AU Optronics Corporation America, AU Optronics Corporation re (117 in 1:07-cv-00357-JJF, 731 in 1:06-cv-00726-JJF) Notice (Other) (Lundgren, Andrew) (Entered: 12/12/2008)
- 12/22/2008 -- ORAL ORDER: The Court GRANTS parties Motions To Consolidate (D.I. 298 in 1:06-cv-00726-JJF, D.I. 89 in 1:08-cv-00355-JJF) and (D.I. 295 in 1:06-cv-00726-JJF). Accordingly, all future filings shall be made and captioned under C.A. No. 06-726 only.. Ordered by Judge Joseph J. Farnan, Jr. on 12/19/2008. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 12/22/2008)
- 12/22/2008 -- Case associated with lead case: Create association to 1:06-cv-00726-JJF. Associated Cases: 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 12/22/2008)
- 01/23/2009 -- ORAL ORDER: LG's "motion" regarding 30(b)(6) depositions per Mr. Kirk's January 16, 2009 e-mail request is DENIED. CMO's e-mail request for 30(b)(6) deposition, per Mr. Rovner's January 21, 2009 e-mail is GRANTED.. Signed by Judge Joseph J. Farnan, Jr. on 1/22/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 01/23/2009)
- 02/27/2009 124 Joint Stipulation of Authenticity As To Certain Documents by CHI MEI OPTOELECTRONICS USA, INC., Chi Mei Optoelectronics Corporation, Au Optronics Corporation, AU Optronics Corporation America, LG Display Co. Ltd., LG Display America Inc.. (Pascale, Karen) Modified on 3/3/2009 (nms). (Entered: 02/27/2009)
- 03/03/2009 -- SO ORDERED, re (124 in 1:07-cv-00357-JJF, 1019 in 1:06-cv-00726-JJF, 106 in 1:08-cv-00355-JJF) Joint Stipulation of Authenticity as to Certain Documents, filed by LG Display America Inc., LG Display Co. Ltd., CHI MEI OPTOELECTRONICS USA, INC., AU Optronics Corporation, Chi Mei Optoelectronics Corporation. Signed by Judge Joseph J. Farnan, Jr. on 3/3/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(nms) (Entered: 03/03/2009)

- 03/09/2009 125 NOTICE OF SERVICE of Expert Report of Jonathan D. Putnam by Au Optronics Corporation, AU Optronics Corporation America.(Pascale, Karen) (Entered: 03/09/2009)
- 03/09/2009 126 NOTICE OF SERVICE of Expert Report of Dr. Aris K. Silzars on Infringement of AUO's Asserted '781, '160, '157, '506 and '069 Patents by LGD's Accused Products by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation. (Pascale, Karen) (Entered: 03/09/2009)
- 03/09/2009 127 NOTICE OF SERVICE of Report of Expert Abbie Gregg Regarding Invalidity of United States Patent Number 6,803,984; Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Number 4,624,737; Report of Expert Lawrence Tannas, Jr. Regarding Invalidity of United States Patent Number 7,218,374; Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Numbers 5,905,274, 6,815,321, and 7,176,489; Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,019,002; Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 6,664,569; and Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,825,449 by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation.(Pascale, Karen) (Entered: 03/09/2009)
- 05/10/2009 128 Official Transcript of Pretrial Conference held on 05-07-09 before Judge Joseph J. Farnan, Jr. Court Reporter/Transcriber Leonard A. Dibbs. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Transcriber before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER (Redaction Request due 6/1/2009., Redacted Transcript Deadline set for 6/10/2009., Release of Transcript Restriction set for 8/10/2009.). (lad) (Entered: 05/10/2009)
- 05/12/2009 129 MEMORANDUM ORDER Setting Bench Trial between LG and AUO for 6/2/2009 09:30 AM in Courtroom 4B before Judge Joseph J. Farnan, Jr. A second Pretrial Conference is set for 5/20/2009 01:30 PM in Courtroom 4B before Judge Joseph J. Farnan, Jr. (See Order for details). Signed by Judge Joseph J. Farnan, Jr. on 5/12/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF(dlk) (Entered: 05/12/2009)
- 05/21/2009 130 Official Transcript of Final Pretrial Conference held on 05-20-09 before Judge Joseph J. Farnan, Jr. Court Reporter/Transcriber Leonard A. Dibbs. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Transcriber before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER (Redaction Request due 6/11/2009., Redacted Transcript Deadline set for 6/22/2009., Release of Transcript Restriction set for 8/19/2009.). (lad) (Entered: 05/21/2009)
- 05/22/2009 131 REDACTED VERSION of (1266 in 1:06-cv-00726-JJF) SEALED MOTION in Limine No. 7 To Preclude LGD's Reliance On Certain Prior Art Products And Foreign Language References by AU Optronics Corporation. (Attachments: # 1 Text of Proposed Order)(Pascale, Karen) (Entered: 05/22/2009)
- 07/20/2009 -- CORRECTING ENTRY: Official Transcripts of 10 day Bench Trial held in June 2009 (DI 132 thru 141) removed from member case CA 07-357 JJF. For information regarding these transcripts, SEE LEAD CASE CA 06-726 JJF, DI 1366 thru 1375. (rbe) (Entered: 07/20/2009)
- 06/03/2010 133 NOTICE of Appearance by Colm F. Connolly on behalf of LG Display America Inc., LG Display America, Inc., LG Display America, Inc. (Connolly, Colm) (Entered: 06/03/2010)
- 06/04/2010 134 MOTION for Pro Hac Vice Appearance of Attorney Kell M. Damsgaard, Thomas B. Kenworthy, and Collin W. Park - filed by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 06/04/2010)
- 06/07/2010 135 MOTION for Pro Hac Vice Appearance of Attorney John D. Zele - filed by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 06/07/2010)
- 06/14/2010 -- CORRECTING ENTRY: D.I. 132 was removed from the docket as it was corrected by D.I. 133. (nms) (Entered: 06/14/2010)
- 07/16/2010 136 PROPOSED Final Judgment ORDER, by AU Optronics Corporation America, Au Optronics Corporation. (Lundgren, Andrew) Modified on 7/19/2010 (nms). (Entered: 07/16/2010)
- 07/16/2010 137 Letter to The Honorable Joseph J. Farnan, Jr. from Andrew A. Lundgren regarding Proposed Final Judgment Order. (Lundgren, Andrew) Modified on 7/19/2010 (nms). (Entered: 07/16/2010)
- 08/18/2010 -- Case reassigned to Judge Leonard P. Stark. Please include the initials of the Judge (LPS)

- after the case number on all documents filed. (rpg) (Entered: 08/18/2010)
- 09/22/2010 -- SO ORDERED, re (1597 in 1:06-cv-00726-LPS) MOTION for Pro Hac Vice Appearance of Attorney John V. Gorman filed by LG Display Co., Ltd., LG Display America, Inc. Signed by Judge Leonard P. Stark on 9/22/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(rpg) (Entered: 09/22/2010)
- 11/02/2010 138 ORAL ORDER: IT IS ORDERED that counsel are to provide the Court with a joint status report on or before November 9, 2010. ORDERED by Judge Leonard P. Stark on 11/2/10. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS (ntl) (Entered: 11/02/2010)
- 11/09/2010 139 Joint STATUS REPORT by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 11/09/2010)
- 12/13/2010 -- SO ORDERED, re (1630 in 1:06-cv-00726-LPS) Stipulation Regarding Participation of Litigation Counsel in Reexamination Proceedings by AU Optronics Corporation America, Au Optronics Corporation. Signed by Judge Leonard P. Stark on 12/13/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(rpg) (Entered: 12/13/2010)
- 12/29/2010 140 MEMORANDUM OPINION re 1508 MOTION For Limited Intervention To Obtain Copies Of Evidence - filed by Anvik Corporation. Signed by Judge Leonard P. Stark on 12/29/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(rpg) (Entered: 12/29/2010)
- 12/29/2010 141 ORDER granting in part and denying in part 1508 in 1:06-cv-00726-LPS MOTION to Intervene filed by Anvik Corporation re 1634 in 1:06-cv-00726-LPS and 140 in 1:07-cv-00357-LPS Memorandum Opinion by Judge Leonard P. Stark. Signed by Judge Leonard P. Stark on 12/29/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(rpg) (Entered: 12/29/2010)
- 01/12/2011 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument - filed by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)
- 01/12/2011 143 OPENING BRIEF in Support re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument (Memorandum of Law in Support of Intervenor Anvik Corporation's Motion for Reconsideration or Reargument filed by Anvik Corporation. Answering Brief/Response due date per Local Rules is 1/31/2011. (Brennecke, Sean) (Entered: 01/12/2011)
- 01/12/2011 144 PROPOSED ORDER Reconsideration or Reargument re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)
- 01/12/2011 145 STATEMENT re 143 Opening Brief in Support, 144 Proposed Order, 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument Rule 7.1.1 Statement of Movant Anvik Corporation by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)
- 02/07/2011 146 REPLY BRIEF re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument [Intervenor Anvik Corporation's Reply Memorandum of Law in Support of Motion for Reconsideration or Reargument] filed by Anvik Corporation. (Brennecke, Sean) (Entered: 02/07/2011)
- 02/14/2011 147 MEMORANDUM OPINION re Anvik's motion for reconsideration or reargument. Signed by Judge Leonard P. Stark on 2/14/11. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(ntl) (Entered: 02/14/2011)
- 02/14/2011 148 ORDER denying (1637) Motion for Reconsideration in case 1:06-cv-00726-LPS; denying (142) Motion for Reconsideration in case 1:07-cv-00357-LPS. Signed by Judge Leonard P. Stark on 2/14/11. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(ntl) (Entered: 02/14/2011)

US District Court Civil Docket**U.S. District - Wisconsin Western
(Madison)****3:07cv137****Au Optronics Corporation v. Lg.Philips Lcd Co, Ltd****This case was retrieved from the court on Thursday, November 05, 2009**

| | |
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| Date Filed: 03/08/2007 | Class Code: TERM 05/30/2007 |
| Assigned To: Judge John C Shabaz | Closed: Yes |
| Referred To: Magistrate Judge Crocker | Statute: |
| Nature of suit: Patent (830) | Jury Demand: Yes |
| Cause: PROPERTY RIGHTS; Patent | Demand Amount: \$0 |
| Lead Docket: none | NOS Description: Patent |
| Other Docket: None | |
| Jurisdiction: Federal Question | |

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| Date | # | Proceeding Text | Source |
|------------|----|---|--------|
| 03/08/2007 | -- | NORTC - FEE PAID. | |
| 03/08/2007 | 1 | JS-44 | |
| 03/08/2007 | 2 | COMPLAINT - SUMMONS ISSUED. | |
| 03/08/2007 | 3 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY PLTF. | |
| 03/15/2007 | 4 | SUMMONS | |
| 03/29/2007 | 5 | NOTICE OF APPEARANCE BY JAMES PETERSON, BRADY WILLIAMSON, GASPARE BONO AND TYLER GOODWYN FOR DEFTS. | |
| 03/29/2007 | 6 | MOTION TO DISMISS BY DEFTS. | |
| 03/29/2007 | 7 | BRIEF IN SUPPORT OF DEFTS. MOTION TO DISMISS. | |
| 03/29/2007 | 8 | AFFIDAVIT OF DONG HOON HAN. | |
| 03/29/2007 | 9 | MOTION TO ADMIT GASPARE J. BONO PRO HAC VICE. | |
| 03/29/2007 | 10 | MOTION TO ADMIT TYLER GOODWYN PRO HAC VICE. | |
| 03/29/2007 | 11 | AFFIDAVIT OF JAMES D. PETERSON IN SUPPORT OF MOTION TO ADMIT GASPARE J. BONO PRO HAC VICE. | |
| 03/29/2007 | 12 | AFFIDAVIT OF JAMES D. PETERSON IN SUPPORT OF MOTION TO ADMIT TYLER GOODWYN PRO HAC VICE. | |
| 04/02/2007 | 13 | ORDER ADMITTING GASPARE BONO PRO HAC VICE. | |
| 04/02/2007 | 14 | ORDER ADMITTING R. TYLER GOODWYN PRO HAC VICE. | |
| 04/03/2007 | 15 | MOTION TO ADMIT ATTYS. M.TYLER, B.RANGE, B.DIETZEL, J.CHEN, R.SHULMAN AND S.BAIK PRO HAC VICE. | |
| 04/03/2007 | 16 | AFFIDAVIT OF JAMES R. TROUPIS. | |
| 04/03/2007 | 17 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY DEFT. LG.PHILIPS LTD. | |
| 04/03/2007 | 18 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY DEFT. LG.PHILIPS AMERICA. | |
| 04/04/2007 | 19 | ORDER ADMITTING M.TYLER, B.RANGE, B.DIETZEL, J.CHEN, R.SHULMAN AND S.BAIK PRO HAC VICE. | |
| 04/16/2007 | 20 | PPTC REPORT BY PLTF. | |
| 04/16/2007 | 21 | PPTC REPORT BY DEFTS. | |
| 04/16/2007 | 22 | MOTION BY DEFTS. TO TRANSFER TO DISTRICT OF DELAWARE. | |
| 04/16/2007 | 23 | BRIEF IN SUPPORT OF DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. | |
| 04/16/2007 | 24 | AFFIDAVIT OF R.TYLER GOODWYN. | |
| 04/17/2007 | 25 | EXHIBIT 1 TO AFFIDAVIT OF DONG HOON HAN FILED 3/29/07. | |

04/17/2007 26 WAIVER OF SERVICE OF SUMMONS BY DEFT. LG.PHILIPS LTD.
04/18/2007 27 BRIEF IN OPPOSITION BY PLTF. TO DEFTS. MOTION TO DISMISS.
04/18/2007 28 AFFIDAVIT OF DAVID W. PANNECK.
04/18/2007 29 AFFIDAVIT OF MICHAEL LESTINA.
04/19/2007 30 PTC ORDER - AMENDMENTS TO PLEADINGS DUE 5/15/07; DISPOSITIVE MOTIONS DUE 7/30/07.
04/30/2007 31 BRIEF IN REPLY IN SUPPORT OF DEFTS. MOTION TO DISMISS.
04/30/2007 32 AFFIDAVIT OF DONG HOON HAN (SUPPLEMENTAL).
05/02/2007 33 MOTION BY PLTF. TO ADMIT JAMES C. YOON AND JULIE HOLLOWAY PRO HAC VICE.
05/02/2007 34 AFFIDAVIT OF JAMES R. TROUPIS.
05/03/2007 35 ORDER ADMITTING JAMES YOON AND JULIE HOLLOWAY PRO HAC VICE.
05/03/2007 36 BRIEF IN REPLY (CORRECTED) IN SUPPORT OF DEFT. LG PHILIPS LCD AMERICA MOTION TO DISMISS.
05/07/2007 37 BRIEF IN OPPOSITION BY PLTF. TO DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE.
05/07/2007 38 AFFIDAVIT OF PAUL BARBATO.
05/07/2007 39 AFFIDAVIT OF ARIS K. SILZARS.
05/17/2007 40 BRIEF IN REPLY IN SUPPORT OF DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE.
05/18/2007 41 MOTION BY PLTF. TO COMPEL DEFT. LG PHILIPS LCD AMERICA TO RESPOND TO REQ. FOR PROD. OF INTERROGS.
05/18/2007 42 BRIEF IN SUPPORT OF PLTF. MOTION TO COMPEL.
05/18/2007 43 AFFIDAVIT OF JAMES R. TROUPIS.
05/18/2007 44 AFFIDAVIT (2ND) OF DAVID W. PANNECK.
05/22/2007 45 BRIEF IN OPPOSITION BY DEFTS. TO PLTF. MOTION TO COMPEL.
05/22/2007 46 AFFIDAVIT OF NICOLE TALBOTT SETTLE.
05/23/2007 -- TELE. MOTION HEARING SET ON #41 FOR 5/30/07, 8:30 AM.
05/24/2007 -- RECD. PROPOSED PROTECTIVE ORDER; FORWARDED TO CHAMBERS.
05/29/2007 47 JOINT RULE 26 REPORT.
05/30/2007 48 PROTECTIVE ORDER
05/30/2007 49 ORDER TRANSFERRING CASE TO DISTRICT OF DELAWARE.
06/01/2007 -- RECORD SENT TO DISTRICT OF DELAWARE.
07/21/2008 -- Further docketing is in CM/ECF at pacer.wiwd.uscourts.gov

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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 90/009,697 | 03/16/2010 | 6689629 | 67507-008Re-exam | 5947 |

65358 7590 11/14/2011

WPAT, PC
INTELLECTUAL PROPERTY ATTORNEYS
7225 BEVERLY ST.
ANNANDALE, VA 22003

EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED: 11/14/2011

Please find below and/or attached an Office communication concerning this application or proceeding.



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(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

SONG K. JUNG

MCKENNA LONG AND ALDRIDGE LLP

1900 K STREET, NW

WASHINGTON, DC 20006

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

| | | |
|--|-----------------------------------|--|
| Office Action in Ex Parte Reexamination | Control No. 90/009,697 | Patent Under Reexamination 6689629 |
| | Examiner TUAN H. NGUYEN | Art Unit 3992 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

- a Responsive to the communication(s) filed on 18 May 2011. b This action is made FINAL.
c A statement under 37 CFR 1.530 has not been received from the patent owner.

A shortened statutory period for response to this action is set to expire 2 month(s) from the mailing date of this letter. Failure to respond within the period for response will result in termination of the proceeding and issuance of an *ex parte* reexamination certificate in accordance with this action. 37 CFR 1.550(d). **EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.550(c)**. If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. Notice of References Cited by Examiner, PTO-892. 3. Interview Summary, PTO-474.
2. Information Disclosure Statement, PTO/SB/08. 4. _____.

Part II SUMMARY OF ACTION

- 1a. Claims 1-16 are subject to reexamination.
1b. Claims _____ are not subject to reexamination.
2. Claims 2,4,10,12 and 13 have been canceled in the present reexamination proceeding.
3. Claims _____ are patentable and/or confirmed.
4. Claims 1,3,5-9,11 and 14-17 are rejected.
5. Claims _____ are objected to.
6. The drawings, filed on _____ are acceptable.
7. The proposed drawing correction, filed on _____ has been (7a) approved (7b) disapproved.
8. Acknowledgment is made of the priority claim under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some* c) None of the certified copies have
1 been received.
2 not been received.
3 been filed in Application No. _____.
4 been filed in reexamination Control No. _____.
5 been received by the International Bureau in PCT application No. _____.
* See the attached detailed Office action for a list of the certified copies not received.
9. Since the proceeding appears to be in condition for issuance of an *ex parte* reexamination certificate except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte* Quayle, 1935 C.D. 11, 453 O.G. 213.
10. Other: _____

cc: Requester (if third party requester)

DETAILED ACTION

This Office Action in response to the Patent Owner's amendment and Remarks filed 05/18/11.

Claim Rejections - Relevant Statutes

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 3992

Detailed Analysis

1/. Claims 1, 3, 5-9, 11, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang in view of the '629 APA.

Regarding claims 1, 9:

Claims 1 and 9 were amended in the pending ex parte reexamination and reads as follows:

1. (Amended) An array substrate for display, comprising:
a layer of an insulating substrate, having an area;
a thin film transistor array formed on the insulating substrate;
a plurality of [wiring] wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
pixel electrodes, and
dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy [patters] patterns are not in contact with any of the [wiring] wirings.

9. (Amended) A [meted] method for forming an array substrate for display, comprising:
forming a layer of an insulating substrate, having an area;
forming a thin film transistor array and a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, the wiring in communication with at least [on] one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

Art Unit: 3992

*forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
forming pixel electrodes, and
forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the [wiring] wirings.*

Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display and method of forming an array substrate comprising the steps of forming a layer of insulating substrate 1 or 101 of glass or quartz having an area (col. 1:35-36, col. 6:29-30);

Zhang discloses plurality of wirings (i.e. scan lines 104 and signal lines 103) is formed on the insulating substrate 1 or 101 in a matrix with TFTs and pixel electrodes 102 at the crossover points of the scan and signal lines (col. 1:34-40, 6:40-44).

Zhang discloses the wirings (i.e. scan lines 104 and signal lines 103) are connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), forming connections pads 303a contacting the first end of at most one of the plurality of wirings (i.e. scan lines 104 and signal lines 103, col. 1:45-47, 6:51-60, Figs. 1, 4, regions R3, R4); forming pixel electrodes 102 (Figs. 1, 16-17); forming dummy conductive pattern 304 located between the pixel section 102 and the connection pads 303a (See, e.g., Zhang, Figs. 4, 8, regions R3, R4). Further, the dummy wirings are not in contact with the wirings.

Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30 microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

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Zhang discloses that the wirings can comprise of a three layer film of titanium/aluminum/titanium. Zhang fails to disclose *the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof* as now amended.

The '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed wiring having upper layer selected from the group consisting of molybdenum, chromium, tantalum, titanium over lower aluminum layer as suggested by the '629 APA in Zhang since the use of a harder to be oxidized material from the upper layer would protect the aluminum from oxidation and prevent the undercut of the lower conductive material.

Regarding claims 3, 5-8, 11, 14-16:

As noted above, the '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium. Since the upper wiring material is the same material for forming the upper wiring as in the instant patent claim; therefore, it inherently does not become insoluble in an acid or alkaline etchant.

21. Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Zhang.

Regarding claim 17:

Claim 17 was amended in the pending ex parte reexamination and reads as follows:

17 (New) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

Art Unit: 3992

Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display comprising a layer of insulating substrate 101 of glass or quartz having an area (col. 1:35-36, 6:29-30);

Zhang discloses a thin film transistor array 112 in pixel section 102, plurality of wirings (i.e. scan lines 104 and signal lines 103) is formed on the insulating substrate 101 in a matrix with TFTs and pixel electrodes at the crossover points of the scan and signal lines (col. 1:34-40, 6:34-44).

Zhang discloses the wirings (i.e. scan lines 104 and signal lines 103) are directly connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1); connections pads 303a contacting the first end of at most one of the plurality of wirings (i.e. scan lines 104 and signal lines 103, col. 1:45-47, 6:51-60, col. 9:65 to col. 10:6, Figs. 1, 4, regions R3, R4); pixel electrodes 102 (Figs. 1, 16-17); dummy conductive pattern 304 located between the pixel electrodes 102 and the connection pads 303a (See, e.g., Zhang, Figs. 4, 8, regions R3, R4). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30 microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Response to Arguments

Patent Owner's arguments filed on 05/18/11 have been fully considered but they are not persuasive.

With respect to the Patent Owner's argument in his Remarks, pages 20-22, 24-26 with respect to Zhang does not disclose or teach the recited limitation of "the dummy conductive patterns situated between the connection pads and the pixel electrodes" as recited in claims 1, 9. Patent Owner's attention is respectfully directed to Zhang Figs. 1 and 4, region R3 and R4 for showing the wirings connected to the exterior of the panel outside of the sealing ring 107. Figs. 4, 7, 8 show signal lines 303 connected to pads 303a at extension side region R4 and dummy wirings 304 formed between the connection pad 303a and the pixel electrodes 102.

Summary

Claims 1, 3, 5-9, 11, 14-17 are rejected.

Claims 2, 4, 10, 12-13 were cancelled.

Conclusion

THIS ACTION IS MADE FINAL.

A shortened statutory period for response to this action is set to expire 2 months from the mailing date of this action.

Extensions of time under 37 CFR 1.136(a) do not apply in reexamination proceedings. The provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Further, in 35 U.S.C. 305 and in 37 CFR 1.550(a), it is required that reexamination proceedings "will be conducted with special dispatch within the Office."

Extensions of time in reexamination proceedings are provided for in 37 CFR 1.550(c). A request for extension of time must be filed on or before the day on which a response to this action is due, and it must be accompanied by the petition fee set forth in 37 CFR 1.17(g). The mere filing of a request will not effect any extension of time. An extension of time will be granted only for sufficient cause, and for a reasonable time specified.

The filing of a timely first response to this final rejection will be construed as including a request to extend the shortened statutory period for an additional month, which will be granted even if previous extensions have been granted. In no event however, will the statutory period for response expire later than SIX MONTHS from the mailing date of the final action. See MPEP § 2265.

Art Unit: 3992

Duty to Disclose

The patent owner is reminded of the continuing responsibility under 37 CFR 1.565(a) to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving Patent No. 6,689,629 throughout the course of this reexamination proceeding. The third party requester is also reminded of the ability to similarly apprise the Office of any such activity or proceeding throughout the course of this reexamination proceeding. See MPEP §§ 2207, 2282 and 2286.

All correspondence relating to this *ex parte* reexamination proceeding should be directed:

By Mail to: Mail Stop *Ex Parte* Reexam
Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

By hand: Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

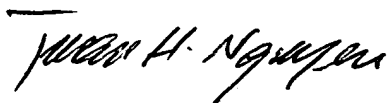
Art Unit: 3992

Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at <https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>. EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS-Web submissions are "soft scanned" (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the "soft scanning" process is complete.

Any inquiry concerning this communication should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

Signed:


Conferees:



Tuan H. Nguyen
Primary Examiner
Central Reexamination Unit


Sue Lao

Minh Nguyen


| | | |
|--|--|---|
| Search Notes  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

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|-----------------|-----------------|-------------|-----------------|
| SEARCHED | | | |
| Class | Subclass | Date | Examiner |
| None | | 11/08/11 | TN |

| | | |
|---|-------------|-----------------|
| SEARCH NOTES | | |
| Search Notes | Date | Examiner |
| Reviewed of patented file's prosecution history | 4/16/10 | TN |

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|----------------------------|-----------------|-------------|-----------------|
| INTERFERENCE SEARCH | | | |
| Class | Subclass | Date | Examiner |
| | | | |

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|---|--|---|
| Reexamination  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Certificate Date | Certificate Number |

Requester Correspondence Address: **Patent Owner** **Third Party**

SONG K. JUNG
 MCKENNA LONG AND ALDRIDGE LLP
 1900 K STREET, NW
 WASHINGTON, DC 20006

| | | |
|---|---------------------------|----------------------|
| LITIGATION REVIEW <input checked="" type="checkbox"/> | TN (examiner initials) | 11/08/2011 (date) |
| Case Name | | Director Initials |
| Open 1:07cv357 Au Optronics Corp. v. Lg. Philips Lcd Co Ltd e | | Mll for Iy |
| Closed 1:07cv137 Au Optronics Corp. v. Lg. Philips Lcd Co. Lt | | ↓ |
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**SIN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: **90/009,697**
Patentee: **6,689,629**
Filing Date: **3/16/2010**
Art Unit: **3992**
Examiner: **Tuan H. Nguyen**
Attorney Docket No.: **67507-008Re-exam**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**RESPONSE TO FINAL OFFICE ACTION
REQUEST FOR RECONSIDERATION**

Sir:

This paper responds to the Final Office Action dated November 14, 2011.

Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

What is claimed is:

1. (Previously Presented) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

2. (Cancelled)

3. (Previously Presented) The array substrate for display according to claim 1 wherein the lower layer wiring material is selected from the group consisting of aluminum and

aluminum alloys.

4. (Cancelled)

5. (Original) The array substrate for display according to claim 3 wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof.

6. (Original) The array substrate for display according to claim 5 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

7. (Previously Presented) The array substrate for display according to claim 1 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

8. (Original) The array substrate for display according to claim 5 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

9. (Previously Presented) A method for forming an array substrate for display, comprising:

forming a layer of an insulating substrate, having an area;

forming a thin film transistor array and a plurality of wirings on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

forming pixel electrodes, and

forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

10. (Cancelled)

11. (Previously Presented) The method for forming an array substrate for display according to claim 9 wherein the lower layer wiring materials is selected from the group consisting of aluminum and aluminum alloys.

12. (Cancelled)

13. (Cancelled)

14. (Previously Presented) The method for forming an array substrate for display according to claim 9 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

15. (Previously Presented) The method for forming an array substrate for display according to claim 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

16. (Previously Presented) The method for forming an array substrate for display

according to claim 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

17 (Previously Presented) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

REMARKS/ARGUMENTS

Claim Status Summary

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA.

35 U.S.C. §103(a) Rejection over Zhang

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA. Patentee respectfully disagrees for the reasons discussed below.

The 35 U.S.C. §103(a) states the following:

“(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.”

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Patentee respectfully submits that Zhang does not disclose or teach every recited limitation in the claim 1. The claim 1 recites the following limitations:

“An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

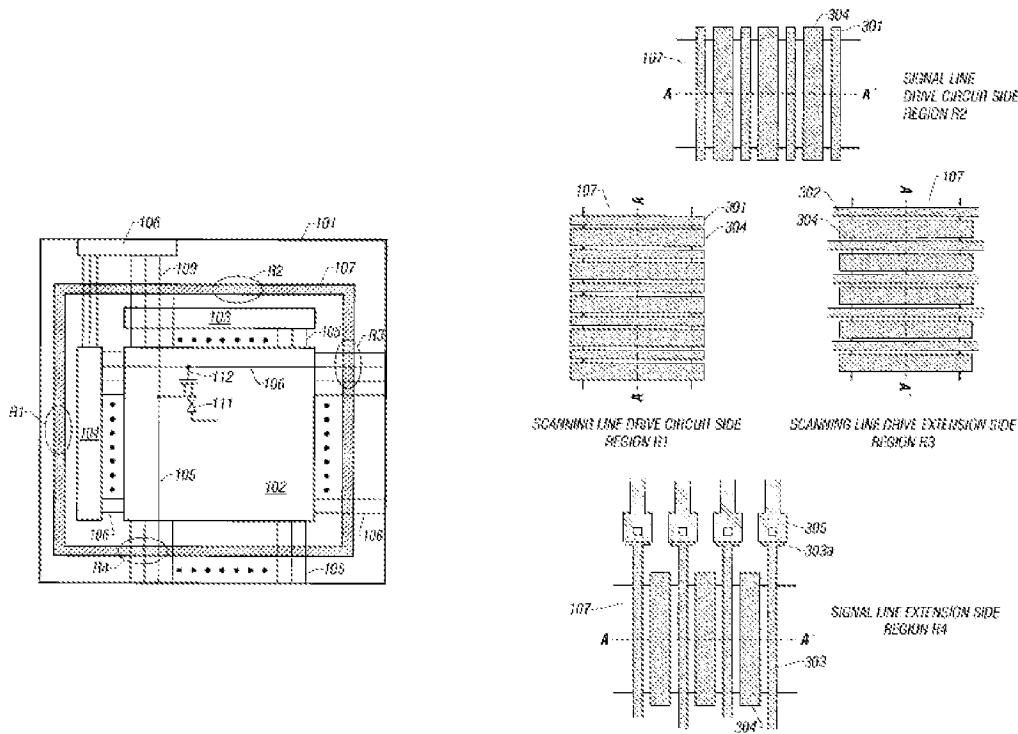
dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated *between the connection pads and the pixel electrodes* such that the dummy patterns are not in contact with any of the wirings.”

Zhang Does Not Disclose the Recited “Dummy Conductive Patterns ... Between the Connection Pads and the Pixel Electrodes” as recited in Claim 1

Patentee respectfully submits that Zhang does not disclose or teach the recited structural limitation of “dummy conductive patterns...between the connection pads and the pixel electrodes”. As illustrated in Figure 2 of the instant patent, the dummy conductive patterns 29 are located between the connection pads and the pixel electrodes.

The Office stated that Zhang’s figure 4 and 8 disclose that the dummy conductive patterns are located between the connection pads and pixel electrodes (Office Action, page 4, last paragraph, lines 5-7). The Office further explicitly stated that Zhang’s Figures 1 and 4, regions R3 and R4 showing the wirings connected to the exterior of the panel outside of the sealing ring 107, and Figures 4, 7, and 8 show signal lines 303 connected to pads 303a at extension side region R4 and dummy wiring 304 formed between the connection pad 303a and the pixel electrodes 102 (Office Action,

page 8, last paragraph). Patentee respectfully disagrees. Patentee respectfully submits that the cited sections in Zhang illustrates actually illustrates that the pads 303a are located within the sealing ring 107; and since Zhang's dummy conductive patterns located at the sealing ring and Zhang's electrodes are also located within the sealing ring, Zhang's dummy conductive patterns **are not** situated between the pads and the electrodes.



Zhang Figure 1

Zhang Figure 4

Zhang's Figures 1 and 4 are reproduced above for references. As Zhang stated, the Figure 1 shows an outline of an element substrate of an active matrix type liquid-crystal display device (column 6, lines 25-26). Zhang further stated that, the Figure 4 shows schematic top view of the sealing material formation regions 107, which are enlarged diagrams of regions R1 to R4 indicated by ellipses in Figure 1. Therefore, the signal line extension side region R4, as illustrated in Zhang's figure 4, corresponds to

the lower left ellipse in Zhang's Figure 1. Further, Zhang explicitly states that, the signal lines 305 are extending from the matrix circuit 102 and connecting to the wires 303 via the pads 303a, which the wires 303 are transversal to the sealing region 107 (Zhang, column 5, lines 10-16, column 10, lines 1-6). Since lines 305 are from the circuit 102 which is enclosed by the sealing region 107, and the 303 are transversal to the seal region 107 and connecting to 305 via pads 303a, therefore the pads 303a are located within the area enclosed by the sealing region 107. And since both the pads 303a and the pixel electrodes are located within the area enclosed by the sealing region 107, and Zhang's dummy patterns are located on the sealing region 107, Zhang's dummy patterns cannot be located between the connection pads and the pixel electrode; thus, Zhang does not disclose the recited structure of "the dummy conductive patterns situated between the connection pads and the pixel electrodes".

Hence, Patentee respectfully submits that Zhang does not disclose or teach that the recited limitation of "the dummy conductive patterns situated between the connection pads and the pixel electrodes". And patentee further respectfully submits that the secondary reference does not cure Zhang's deficiency. For the reason discussed above, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 1 as required under 35 USC 103(a); hence, Patentee respectfully requests the Office to withdraw the rejection over claim 1 accordingly, and to issue favorable re-consideration.

Claims 3, 5-9, 11, and 14-17

Independent claims 9 and 17 recites the similar limitations as the claim 1 discussed above. Claims 3 and 5-8 depend on claim 1, thus they incorporate every recited limitation in claim 1. Claims 11 and 14-16 depend on claim 9, thus they incorporate every recited limitation in claim 9. For the reasons discussed above for claim 1, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 3, 5-9, 11, and 14-17 as required under 35 USC 103(a);

thus, Patentee respectfully requests the Office to withdraw the rejection over the remaining claims 3, 5-9, 11, and 14-17, and to issue favorable re-consideration.

Conclusion

Claims 1, 3, 5-9, 11, and 14-17 are pending in this proceeding. In view of the reasons stated above, Patentee respectfully submits that the independent claims patentably define the present invention over the citations of record, and Patentee respectfully requests a favorable reconsideration and issuing allowance accordingly. Further, the dependent claims should also be allowable for the same reasons as their respective base claims and further due to the additional features that they recite. Separate and individual consideration of the dependent claims is respectfully requested. Examiner is invited to contact the attorney on record to expedite the prosecution in pursuance of allowance.

Respectfully submitted,
WPAT, P.C.

By____/Justin I. King/_____
Justin I. King
Registration No. 50,464

January 12, 2012
WPAT, P.C.
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Alexandria, VA 22314
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing **RESPONSE TO FINAL OFFICE ACTION AND REQUEST FOR RECONSIDERATION** was served upon the following:

Song K. Jung

McKenna Long & Aldridge LLP

1900 K St., N.W.

Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

January 12, 2012

/Justin King/

Date

Justin King, Reg. No. 50,464

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 11824326 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 12-JAN-2012 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 16:21:47 |
| Application Type: | Reexam (Third Party) |

Payment information:

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| Submitted with Payment | no |
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File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|------------------|--|------------------|------------------|
| 1 | | AfterFinalV2.pdf | 87862 <small>581d8052bc467856ca21ed655dd3383bdd097c0a</small> | yes | 10 |

| Multipart Description/PDF files in .zip description | | | |
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| Document Description | Start | End | |
| Amendment After Final | 1 | 1 | |
| Claims | 2 | 5 | |
| Applicant Arguments/Remarks Made in an Amendment | 6 | 10 | |

Warnings:

Information:

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Warnings:

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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 90/009,697 | 03/16/2010 | 6689629 | 67507-008Rc-exam | 5947 |

65358 7590 01/24/2012

WPAT, PC
INTELLECTUAL PROPERTY ATTORNEYS
7225 BEVERLY ST.
ANNANDALE, VA 22003

EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED: 01/24/2012

Please find below and/or attached an Office communication concerning this application or proceeding.



DO NOT USE IN PALM PRINTER

(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

SONG K. JUNG

MCKENNA LONG AND ALDRIDGE LLP

1900 K STREET, NW

WASHINGTON, DC 20006

MAILED

JAN 24 2012

CENTRAL REEXAMINATION UNIT

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

| | | |
|---|-------------------------------------|--|
| Ex Parte Reexamination Advisory Action | Control Number 90/009,697 | Patent Under Reexamination 6689629 |
| | Examiner TUAN H. NGUYEN | Art Unit 3992 |

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

THE PROPOSED RESPONSE FILED 12 January 2012 FAILS TO OVERCOME ALL OF THE REJECTIONS IN THE FINAL REJECTION MAILED 14 November 2011. Therefore, unless a timely appeal is filed, or other appropriate action by the patent owner is taken to overcome all of the outstanding rejection(s), this *ex parte* reexamination proceeding WILL BE TERMINATED and a Notice of Intent to Issue *Ex Parte* Reexamination Certificate will be mailed in due course. Any finally rejected claims, or claims objected to, will be CANCELLED.

THE PERIOD FOR RESPONSE IS EXTENDED TO RUN 3 MONTHS FROM THE MAILING DATE OF THE FINAL REJECTION.

(Extensions of time are governed by 37 CFR 1.550(c))

1. Appellant's Brief is due two months from the date of the Notice of Appeal filed on _____ (or within the extended period for response set forth above, whichever is later). See 37 CFR 1.191(d) and 37 CFR 1.192(a).
2. The proposed amendment(s) will not be entered because:
 - (a) they raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) they raise the issue of new matter (see NOTE below);
 - (c) they are not deemed to place the proceeding in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) they present additional claims without canceling a corresponding number of finally rejected claims.
 NOTE: _____
3. Patent owner's proposed response filed _____ has overcome the following rejection(s): _____
4. The proposed new or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. The a) affidavit/declaration, b) exhibit, or c) request for reconsideration has been considered but does NOT overcome the rejection(s) because: _____
6. The affidavit/declaration or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:
 Claim(s) patentable and/or confirmed: _____
 Claim(s) objected to: _____
 Claim(s) rejected: _____
 Claim(s) not subject to reexamination: _____
8. The drawing correction filed on _____ a) has b) has not been approved by the Examiner.
9. Note the attached Information Disclosure Statement(s), PTO-1449, Paper No(s) _____.
10. Other: *See attached Notice of Non-compliance.*

cc: Requester (if third party requester)

Non-Compliance Notification

The examiner notes that the amendment filed by patent owner on 01/12/12 failed to comply with 37 CFR 1.530(i) which states that:

(i) Amendments made relative to patent. All amendments must be made **relative to the patent** specification, including the claims, and drawings, which are in effect as of the date of filing the request for reexamination (Emphasis added).

In this instant case, the amendment of claims 1, 3, 7, 9, 11, 14-17 should be made relative to the original claims (i.e., the matter to be omitted must be enclosed in brackets and the matter to be added must be underlined), not to the previous amendment.

The amendment dated 01/12/12 will not be entered because it failed to comply with 37 CFR 1.530(i) as noted above.

Conclusion

A shortened statutory period for response to this action is set to expire 1 month from the mailing date of this action for correction of the defects.

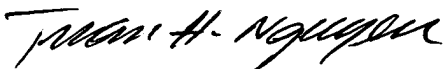
Extensions of time under 37 CFR 1.136(a) do not apply in reexamination proceedings. The provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Further, in 35 U.S.C. 305 and in 37 CFR 1.550(a), it is required that reexamination proceedings "will be conducted with special

Art Unit: 3992

dispatch Within the Office."

Extensions of time in reexamination proceedings are provided for in 37 CFR 1.550(c). A request for extension of time must be filed on or before the day on which a response to this action is due, and it must be accompanied by the petition fee set forth in 37 CFR 1.17(g). The mere filing of a request will not affect any extension of time. An extension of time will be granted only for sufficient cause, and for a reasonable time specified.

The filing of a timely first response to this final rejection will be construed as including a request to extend the shortened statutory period for an additional month, which will be granted even if previous extensions have been granted. In no event however, will the statutory period for response expire later than SIX MONTHS from the mailing date of the final action. See MPEP § 2265.



Tuan H. Nguyen
Primary Patent Examiner
Art Unit 3992

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: **90/009,697**
Patentee: **6,689,629**
Filing Date: **3/16/2010**
Art Unit: **3992**
Examiner: **Tuan H. Nguyen**
Attorney Docket No.: **67507-008Re-exam**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**RESPONSE TO FINAL OFFICE ACTION
REQUEST FOR RECONSIDERATION**

Sir:

This paper responds to the Final Office Action dated November 14, 2011 and the Non-Compliance Notification dated January 24, 2012. Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

What is claimed is:

1. (Amended) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of [wiring] wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy [patters] patterns are not in contact with any of the [wiring] wirings.

2. (Cancelled)

3. (Amended) The array substrate for display according to claim [2] 1 wherein the lower

layer wiring material is selected from the group consisting of aluminum and aluminum alloys.

4. (Cancelled)

5. (Original) The array substrate for display according to claim 3 wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof.

6. (Original) The array substrate for display according to claim 5 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

7. (Amended) The array substrate for display according to claim [4] 1 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

8. (Original) The array substrate for display according to claim 5 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

9. (Amended) A [meted] method for forming an array substrate for display, comprising:

forming a layer of an insulating substrate, having an area;

forming a thin film transistor array and a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, the wiring in communication with at least [on] one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

forming pixel electrodes, and

forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the [wiring] wirings.

10. (Cancelled)

11. (Amended) The method for forming an array substrate for display according to claim [10] 9 wherein the lower layer wiring materials is selected from the group consisting of aluminum and aluminum alloys.

12. (Cancelled)

13. (Cancelled)

14. (Amended) The method for forming an array substrate for display according to claim [13] 9 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

15. (Amended) The method for forming an array substrate for display according to claim [12] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

16. (Amended) The method for forming an array substrate for display according to

claim [13] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

17 (New) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

REMARKS/ARGUMENTS

Claim Status Summary

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA.

35 U.S.C. §103(a) Rejection over Zhang

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA. Patentee respectfully disagrees for the reasons discussed below.

The 35 U.S.C. §103(a) states the following:

“(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.”

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Patentee respectfully submits that Zhang does not disclose or teach every recited limitation in the claim 1. The claim 1 recites the following limitations:

“An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

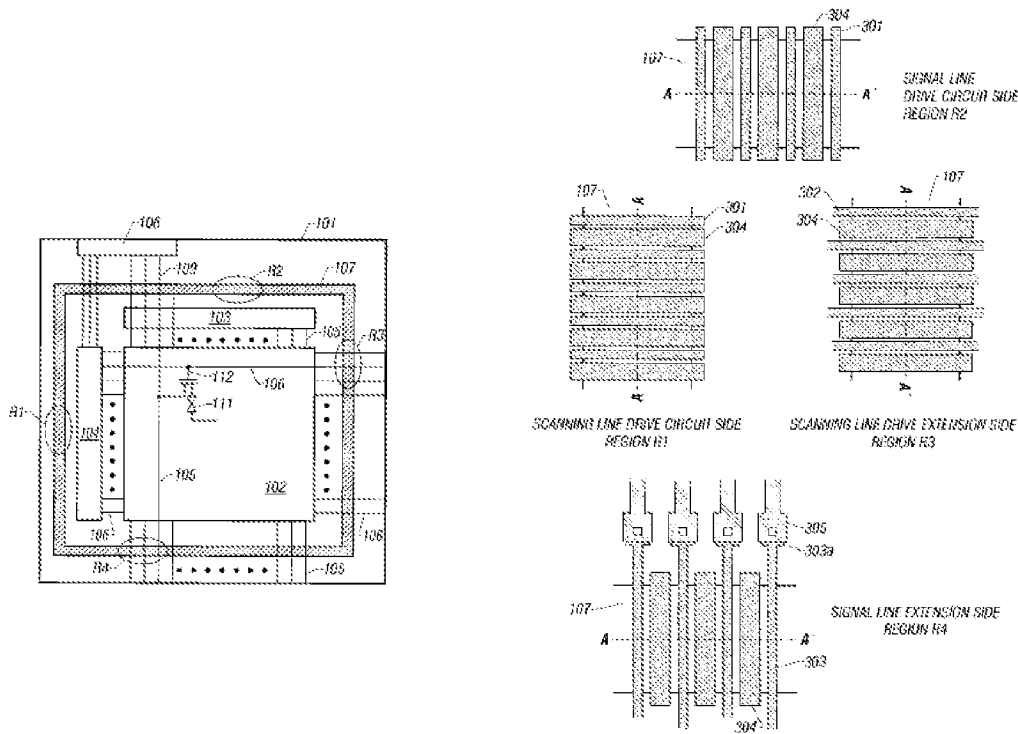
dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated *between the connection pads and the pixel electrodes* such that the dummy patterns are not in contact with any of the wirings.”

Zhang Does Not Disclose the Recited “Dummy Conductive Patterns ... Between the Connection Pads and the Pixel Electrodes” as recited in Claim 1

Patentee respectfully submits that Zhang does not disclose or teach the recited structural limitation of “dummy conductive patterns...between the connection pads and the pixel electrodes”. As illustrated in Figure 2 of the instant patent, the dummy conductive patterns 29 are located between the connection pads and the pixel electrodes.

The Office stated that Zhang’s figure 4 and 8 disclose that the dummy conductive patterns are located between the connection pads and pixel electrodes (Office Action, page 4, last paragraph, lines 5-7). The Office further explicitly stated that Zhang’s Figures 1 and 4, regions R3 and R4 showing the wirings connected to the exterior of the panel outside of the sealing ring 107, and Figures 4, 7, and 8 show signal lines 303 connected to pads 303a at extension side region R4 and dummy wiring 304 formed between the connection pad 303a and the pixel electrodes 102 (Office Action,

page 8, last paragraph). Patentee respectfully disagrees. Patentee respectfully submits that the cited sections in Zhang illustrates actually illustrates that the pads 303a are located within the sealing ring 107; and since Zhang's dummy conductive patterns located at the sealing ring and Zhang's electrodes are also located within the sealing ring, Zhang's dummy conductive patterns **are not** situated between the pads and the electrodes.



Zhang Figure 1

Zhang Figure 4

Zhang's Figures 1 and 4 are reproduced above for references. As Zhang stated, the Figure 1 shows an outline of an element substrate of an active matrix type liquid-crystal display device (column 6, lines 25-26). Zhang further stated that, the Figure 4 shows schematic top view of the sealing material formation regions 107, which are enlarged diagrams of regions R1 to R4 indicated by ellipses in Figure 1. Therefore, the signal line extension side region R4, as illustrated in Zhang's figure 4, corresponds to

the lower left ellipse in Zhang's Figure 1. Further, Zhang explicitly states that, the signal lines 305 are extending from the matrix circuit 102 and connecting to the wires 303 via the pads 303a, which the wires 303 are transversal to the sealing region 107 (Zhang, column 5, lines 10-16, column 10, lines 1-6). Since lines 305 are from the circuit 102 which is enclosed by the sealing region 107, and the 303 are transversal to the seal region 107 and connecting to 305 via pads 303a, therefore the pads 303a are located within the area enclosed by the sealing region 107. And since both the pads 303a and the pixel electrodes are located within the area enclosed by the sealing region 107, and Zhang's dummy patterns are located on the sealing region 107, Zhang's dummy patterns cannot be located between the connection pads and the pixel electrode; thus, Zhang does not disclose the recited structure of "the dummy conductive patterns situated between the connection pads and the pixel electrodes".

Hence, Patentee respectfully submits that Zhang does not disclose or teach that the recited limitation of "the dummy conductive patterns situated between the connection pads and the pixel electrodes". And patentee further respectfully submits that the secondary reference does not cure Zhang's deficiency. For the reason discussed above, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 1 as required under 35 USC 103(a); hence, Patentee respectfully requests the Office to withdraw the rejection over claim 1 accordingly, and to issue favorable re-consideration.

Claims 3, 5-9, 11, and 14-17

Independent claims 9 and 17 recites the similar limitations as the claim 1 discussed above. Claims 3 and 5-8 depend on claim 1, thus they incorporate every recited limitation in claim 1. Claims 11 and 14-16 depend on claim 9, thus they incorporate every recited limitation in claim 9. For the reasons discussed above for claim 1, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 3, 5-9, 11, and 14-17 as required under 35 USC 103(a);

thus, Patentee respectfully requests the Office to withdraw the rejection over the remaining claims 3, 5-9, 11, and 14-17, and to issue favorable re-consideration.

Conclusion

Claims 1, 3, 5-9, 11, and 14-17 are pending in this proceeding. In view of the reasons stated above, Patentee respectfully submits that the independent claims patentably define the present invention over the citations of record, and Patentee respectfully requests a favorable reconsideration and issuing allowance accordingly. Further, the dependent claims should also be allowable for the same reasons as their respective base claims and further due to the additional features that they recite. Separate and individual consideration of the dependent claims is respectfully requested. Examiner is invited to contact the attorney on record to expedite the prosecution in pursuance of allowance.

Respectfully submitted,
WPAT, P.C.

By____/Justin I. King/_____
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Registration No. 50,464

January 26, 2012
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Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 11929546 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 26-JAN-2012 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 15:43:53 |
| Application Type: | Reexam (Third Party) |

Payment information:

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| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|--|---|------------------|------------------|
| 1 | Reexam Certificate of Service | certificate_of_service_NonCompliance.pdf | 3960 <small>bb783cdc5075bf494413d428f05ae20b8c6a0835</small> | no | 1 |

Warnings:

| | | | | | |
|---|--|---------------------------------------|--|------------|----|
| 2 | | Response_NonCompliance_AfterFinal.pdf | 88728 <small>649e75102e5fea9841555397443c56817a30b0d5</small> | yes | 10 |
| Multipart Description/PDF files in .zip description | | | | | |
| Document Description | | | Start | End | |
| Amendment After Final | | | 1 | 1 | |
| Claims | | | 2 | 5 | |
| Applicant Arguments/Remarks Made in an Amendment | | | 6 | 10 | |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 92688 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing RESPONSE TO FINAL OFFICE ACTION AND REQUEST FOR RECONSIDERATION AND RESPONSE TO NON-COMPLIANCE NOTIFICATION was served upon the following:

Song K. Jung

McKenna Long & Aldridge LLP

1900 K St., N.W.

Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

January 26, 2012

Date

/Justin King/

Justin King, Reg. No. 50,464

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

Appl No.: 90/009,697
Patentee: 6,689,629
Filing Date: 3/16/2010
Art Unit: 3992
Examiner: Tuan H. Nguyen
Attorney Docket No.: 67507-008Re-exam

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**RESPONSE TO FINAL OFFICE ACTION
REQUEST FOR RECONSIDERATION**

Sir:

This paper responds to the Final Office Action dated November 14, 2011 and the Non-Compliance Notification dated January 24, 2012. Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

*Enter
TN 2/1/12*



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 90/009,697 | 03/16/2010 | 6689629 | 67507-008Re-exam | 5947 |

65358 7590 03/02/2012

WPAT, PC
INTELLECTUAL PROPERTY ATTORNEYS
7225 BEVERLY ST.
ANNANDALE, VA 22003

EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED: 03/02/2012

Please find below and/or attached an Office communication concerning this application or proceeding.



DO NOT USE IN PALM PRINTER

(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

SONG K. JUNG

MCKENNA LONG AND ALDRIDGE LLP

1900 K STREET, NVV

WASHINGTON, DC 20006

MAILED

MAR 02 2012

CENTRAL REEXAMINATION UNIT

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

| | | |
|--|----------------------------|---------------------------------------|
| Office Action in Ex Parte Reexamination | Control No. 90/009,697 | Patent Under Reexamination 6689629 |
| | Examiner TUAN H. NGUYEN | Art Unit 3992 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

- a Responsive to the communication(s) filed on 26 January 2012. b This action is made FINAL.
c A statement under 37 CFR 1.530 has not been received from the patent owner.

A shortened statutory period for response to this action is set to expire 2 month(s) from the mailing date of this letter. Failure to respond within the period for response will result in termination of the proceeding and issuance of an *ex parte* reexamination certificate in accordance with this action. 37 CFR 1.550(d). **EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.550(c)**. If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. Notice of References Cited by Examiner, PTO-892. 3. Interview Summary, PTO-474.
2. Information Disclosure Statement, PTO/SB/08. 4. _____.

Part II SUMMARY OF ACTION

- 1a. Claims 1-16 are subject to reexamination.
1b. Claims _____ are not subject to reexamination.
2. Claims 2,4,10,12 and 13 have been canceled in the present reexamination proceeding.
3. Claims _____ are patentable and/or confirmed.
4. Claims 1, 3, 5-9, 11, 14-17 are rejected.
5. Claims _____ are objected to.
6. The drawings, filed on _____ are acceptable.
7. The proposed drawing correction, filed on _____ has been (7a) approved (7b) disapproved.
8. Acknowledgment is made of the priority claim under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some* c) None of the certified copies have
1 been received.
2 not been received.
3 been filed in Application No. _____
4 been filed in reexamination Control No. _____
5 been received by the International Bureau in PCT application No. _____
* See the attached detailed Office action for a list of the certified copies not received.
9. Since the proceeding appears to be in condition for issuance of an *ex parte* reexamination certificate except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte* Quayle, 1935 C.D. 11, 453 O.G. 213.
10. Other: _____

cc: Requester (if third party requester)

DETAILED ACTION

This Office Action in response to the Patent Owner's amendment and Remarks filed 01/26/2012.

Applicant's request for reconsideration of the finality of the rejection of the last Office action dated 11/14/2011 is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - Relevant Statutes

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Detailed Analysis

1/. Claims 1, 3, 5-9, 11, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang in view of the '629 APA.

Regarding claims 1, 9:

Claims 1 and 9 were amended in the pending ex parte reexamination and reads as follows:

1. (Amended) An array substrate for display, comprising:
a layer of an insulating substrate, having an area;
a thin film transistor array formed on the insulating substrate;
a plurality of [wiring] wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
pixel electrodes, and
dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy [patters] patterns are not in contact with any of the [wiring] wirings.

9. (Amended) A [meted] method for forming an array substrate for display, comprising:
forming a layer of an insulating substrate, having an area;
forming a thin film transistor array and a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, the wiring in communication with at least [on] one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive

Art Unit: 3992

materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
forming pixel electrodes, and
forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the [wiring] wirings.

Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display and method of forming an array substrate comprising the steps of forming a layer of insulating substrate 1 or 101 of glass or quartz having an area (col. 1:35-36, col. 6:29-30);

Zhang discloses plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 1 or 101 in a matrix with TFTs and pixel electrodes 102 at the crossover points of the scan and signal lines (col. 1:34-40, 6:40-44).

Zhang discloses the wirings (i.e. scan lines 106 and signal lines 105) are connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), forming connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); forming pixel electrodes 102 (Figs. 1, 16-17); forming dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See, Zhang, Figs. 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30

Art Unit: 3992

microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Zhang discloses that the wirings can comprise of a three layer film of titanium/aluminum/titanium. Zhang fails to disclose *the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof* as now amended.

The '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed wiring having upper layer selected from the group consisting of molybdenum, chromium, tantalum, titanium over lower aluminum layer as suggested by the '629 APA in Zhang since the use of a harder to be oxidized material from the upper layer would protect the aluminum from oxidation and prevent the undercut of the lower conductive material.

Regarding claims 3, 5-8, 11, 14-16:

As noted above, the '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium. Since the upper wiring material is the same material for forming the upper wiring as in the instant patent claim; therefore, it inherently does not become insoluble in an acid or alkaline etchant.

21. Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Zhang.

Regarding claim 17:

Claim 17 was amended in the pending ex parte reexamination and reads as follows:

17 (New) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

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Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display comprising a layer of insulating substrate 101 of glass or quartz having an area (col. 1:35-36, 6:29-30);

Zhang discloses a thin film transistor array 112 in pixel section 102, plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 101 in a matrix with TFTs and pixel electrodes at the crossover points of the scan and signal lines (col. 1:34-40, 6:34-44).

Zhang discloses a plurality of wirings (i.e. scan lines 106 and signal lines 105) are directly connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); pixel electrodes 102 (Figs. 1, 16-17); dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See Zhang, Figs. 1, 16, 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30 microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Response to Arguments

Patent Owner's arguments filed on 01/26/2012 have been fully considered but they are not persuasive.

With respect to the Patent Owner's argument in his Remarks with respect to Zhang does not disclose or teach the recited limitation of "the dummy conductive patterns situated between the connection pads and the pixel electrodes" as recited in claims 1, 9. Patent Owner's attention is respectfully directed to Zhang Figs. 1 and 4, region R3 and R4 which show the improvement from conventional LCD device shown in Figs. 16 and 17 where the signal lines 105 and scanning lines 106 extend to the exterior of the sealing material 107 so as to be connected to an external circuit or an external terminal (Col. 6:51-60). Although Fig. 1 does not show the connection pads at the end of the wirings connected to the exterior of the panel outside of the sealing ring 107; however, Fig. 16, col. 1:45-46 clearly show first ends of each wiring connected to the extension terminal or pads 6. Figs. 1, 3, 4, 7, 8 show scanning lines 302 and signal lines 303 connect pixel electrodes 102 to external terminal or pads at extension side regions R3 and R4 through the sealing ring 107, and dummy wirings 304 formed in the sealing material 107 between the connection pads or external terminal formed outside the sealing ring 107 (as shown in Fig. 16) and the pixel electrodes 102. Note also col. 5:17-23, 9:55-60 which disclose the wirings 302 and 303 (as shown in Figs. 3, 4) are used for connecting the pixel section 102 to an external circuit or *external terminal*. It is agreed

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with the Patent Owner's argument that pads 303a for connecting wiring 303 to pixel electrodes 102 through wiring 305 as shown in Figs. 3, 4 and text on paragraph bridging col. 9-10 are located within the sealing region 107; however, external terminals or pads which is used for connecting wiring 302, 303 in regions R3, R4 to an external circuit as disclosed in col. 9:55-60 and shown in Fig. 16 are clearly outside the sealing region 107.

Summary

Claims 1, 3, 5-9, 11, 14-17 are rejected.

Claims 2, 4, 10, 12-13 were cancelled.

Conclusion

Extensions of time under 37 CFR 1.136(a) do not apply in reexamination proceedings. The provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Further, in 35 U.S.C. 305 and in 37 CFR 1.550(a), it is required that reexamination proceedings "will be conducted with special dispatch within the Office."

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Extensions of time in reexamination proceedings are provided for in 37

CFR 1.550(c). A request for extension of time must be filed on or before the day on which a response to this action is due, and it must be accompanied by the petition fee set forth in 37 CFR 1.17(g). The mere filing of a request will not effect any extension of time. An extension of time will be granted only for sufficient cause, and for a reasonable time specified.

The filing of a timely first response to this final rejection will be construed as including a request to extend the shortened statutory period for an additional month, which will be granted even if previous extensions have been granted. In no event however, will the statutory period for response expire later than SIX MONTHS from the mailing date of the final action. See MPEP § 2265.

Duty to Disclose

The patent owner is reminded of the continuing responsibility under 37 CFR 1.565(a) to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving Patent No. 6,689,629 throughout the course of this reexamination proceeding. The third party requester is also reminded of the ability to similarly apprise the Office of any such activity or proceeding throughout the course of this reexamination proceeding. See MPEP § § 2207, 2282 and 2286.

Art Unit: 3992

All correspondence relating to this *ex parte* reexamination proceeding should be directed:

By Mail to: Mail Stop *Ex Parte* Reexam
Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

By hand: Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

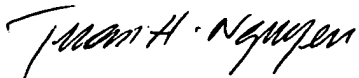
Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at <https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>. EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS-Web submissions are "soft scanned" (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the "soft scanning" process is complete.

Any inquiry concerning this communication should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

Art Unit: 3992

Signed:

Conferees:




Tuan H. Nguyen
Primary Examiner
Central Reexamination Unit



Sue Lao



Minh Nguyen


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| Search Notes  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

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| SEARCHED | | | |
| Class | Subclass | Date | Examiner |
| None | | 02/1/125 | TN |

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| SEARCH NOTES | | |
| Search Notes | Date | Examiner |
| Reviewed of patented file's prosecution history | 4/16/10 | TN |

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| INTERFERENCE SEARCH | | | |
| Class | Subclass | Date | Examiner |
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| Index of Claims  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

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| ✓ | Rejected |
| = | Allowed |


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| - | Cancelled |
| ÷ | Restricted |

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|---|---------------------|
| N | Non-Elected |
| I | Interference |

| | |
|---|-----------------|
| A | Appeal |
| O | Objected |

Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

| CLAIM | | DATE | | | | | | | | | |
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| Final | Original | 02/28/2012 | 02/28/2012 | | | | | | | | |
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| | 2 | - | | | | | | | | | |
| | 3 | ✓ | | | | | | | | | |
| | 4 | - | | | | | | | | | |
| | 5 | ✓ | | | | | | | | | |
| | 6 | ✓ | | | | | | | | | |
| | 7 | ✓ | | | | | | | | | |
| | 8 | ✓ | | | | | | | | | |
| | 9 | ✓ | | | | | | | | | |
| | 10 | - | | | | | | | | | |
| | 11 | ✓ | | | | | | | | | |
| | 12 | - | | | | | | | | | |
| | 13 | - | | | | | | | | | |
| | 14 | ✓ | | | | | | | | | |
| | 15 | ✓ | | | | | | | | | |
| | 16 | ✓ | | | | | | | | | |
| | 17 | ✓ | | | | | | | | | |

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| Reexamination  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Certificate Date | Certificate Number |

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| Requester Correspondence Address: | <input type="checkbox"/> Patent Owner | <input checked="" type="checkbox"/> Third Party |
| SONG K. JUNG MCKENNA LONG AND ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006 | | |

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| LITIGATION REVIEW <input checked="" type="checkbox"/> | TN (examiner initials) | 02/15/2012 (date) |
| Case Name | | Director Initials |
| Open 1:07cv357 Au Optronics Corp. v. Lg. Philips Lcd Co Ltd <i>et al</i> | | |
| Closed 1:07cv137 Au Optronics Corp. v. Lg. Philips Lcd Co. Lt | | |
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: **90/009,697**
Patentee: **6,689,629**
Filing Date: **3/16/2010**
Art Unit: **3992**
Examiner: **Tuan H. Nguyen**
Attorney Docket No.: **67507-008Re-exam**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO OFFICE ACTION

Sir:

This paper responds to the Office Action dated March 2, 2012. Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

What is claimed is:

1. (Amended) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of [wiring] wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy [patters] patterns are not in contact with any of the [wiring] wirings.

2. (Cancelled)

3. (Amended) The array substrate for display according to claim [2] 1 wherein the lower

layer wiring material is selected from the group consisting of aluminum and aluminum alloys.

4. (Cancelled)

5. (Original) The array substrate for display according to claim 3 wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof.

6. (Original) The array substrate for display according to claim 5 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

7. (Amended) The array substrate for display according to claim [4] 1 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

8. (Original) The array substrate for display according to claim 5 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

9. (Amended) A [meted] method for forming an array substrate for display, comprising:

forming a layer of an insulating substrate, having an area;

forming a thin film transistor array and a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, the wiring in communication with at least [on] one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

forming pixel electrodes, and

forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the [wiring] wirings.

10. (Cancelled)

11. (Amended) The method for forming an array substrate for display according to claim [10] 9 wherein the lower layer wiring materials is selected from the group consisting of aluminum and aluminum alloys.

12. (Cancelled)

13. (Cancelled)

14. (Amended) The method for forming an array substrate for display according to claim [13] 9 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

15. (Amended) The method for forming an array substrate for display according to claim [12] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

16. (Amended) The method for forming an array substrate for display according to

claim [13] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

17 (New) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

REMARKS/ARGUMENTS

Claim Status Summary

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA.

35 U.S.C. §103(a) Rejection over Zhang

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA. Patentee respectfully disagrees for the reasons discussed below.

The 35 U.S.C. §103(a) states the following:

“(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.”

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Patentee respectfully submits that Zhang does not disclose or teach every recited limitation in the claim 1. The claim 1 recites the following limitations:

“An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated *between the connection pads and the pixel electrodes* such that the dummy patterns are not in contact with any of the wirings.”

Zhang Does Not Disclose the Recited “Dummy Conductive Patterns ... Between the Connection Pads and the Pixel Electrodes” as recited in Claim 1

Patentee thanks the Office for the detailed review on the reasons stated in the Response filed on 1/26/2012. The Response, as filed on 1/26/2012, explained that Zhang as applied in the rejection on record does not disclose or teach the recited location of the dummy conductive patterns between the connection pads and the pixel electrodes. The Office stated that the Office is agreed with Patentee that Zhang’s invention as shown in the relevant figures does disclose the connection pads located within the sealing region (Office Action, page 8, last line, and page 9, 1st paragraph), and since the connection pads are within the sealed area, Zhang’s invention as shown in the relevant figures does not disclose the dummy conductive patterns located between the connection pads and the pixel electrodes.

However, the Office alleged that although Zhang’s invention in the relevant figures does not disclose the connection pads outside of the sealing region, the Office

alleged that Zhang's figure 16 does disclose connection pads located outside of the sealing region. Thus, the Office maintains the rejection on record. Patentee respectfully submits that Zhang's figure 16 is teaching away from Zhang's invention and cannot be applied to the rejection on record.

Zhang discloses that Zhang's figure 16, as a prior art, connects to the peripheral drive outside of the sealing region (Zhang, column 2, lines 25-36). Zhang discloses that the figure 16 prior art is prone to the problem of moisture entering the sealing region. Zhang then discloses that Zhang's figure 17, as an improved prior art, minimizes the moisture problem by providing the capability of connecting the peripheral drive circuit within the sealing region (Zhang, column 2, lines 35-52), which the figure 17 moves the connection pads within the sealing region to accommodate connecting the peripheral drive circuits within the sealing region. However, Zhang discloses that since a one-side drive system is generally adapted without any provision of a redundant circuit, the figure 17 usually is wired asymmetrically. Such that, Zhang discloses that the figure 17 prior art is prone to a bonding problem on the sealing the sealing region due to the uneven pressure caused by the asymmetrical wiring arrangement. Zhang then disclose his invention with the alleged dummy pattern 304 to provide the support for a uniform sealing pressure (Zhang, column 4, lines 21-35).

Patentee respectfully submits that Zhang's figure 16 cannot be applied to the rejection on record because Zhang's figure 16 teaches away from Zhang's invention when view the Zhang reference as whole. As the record shows, Zhang reference is applied to disclose the recited conductive dummy pattern. As stated above, Zhang teaches the dummy pattern in the sealing region to provide a uniform sealing pressure as lacking in the prior art figure 17. Also stated above, Zhang's figure 17 teaches moving the connection pads into the sealing region for connecting the peripheral drive circuit within the sealing region as to improve the moisture problem in Zhang's figure 16. Thus, Patentee respectfully submits that Zhang's figure 16 cannot properly support the 103(a) rejection on record. Not only Zhang's figure 16 does not show the recited

connective dummy pattern, Zhang's figure 16 also does not have any motivation or necessity to include the recited connective dummy pattern in its sealing region. Patentee further respectfully submits that Zhang's invention cannot be modified by relocating the connection pads outside of the sealing region. If Zhang moves the connection pads outside of the sealing region as shown in the prior art figure 16, it will defeat the purpose of Zhang's conductive dummy pattern. Since Zhang's conductive dummy pattern is for curing the uneven sealing pressure caused by the asymmetrical wiring after moving the connections pad into the sealing region, by moving the connections pad to outside of the sealing region will eliminate the uneven sealing pressure issue and also eliminate the needs for Zhang's dummy pattern.

The Office further stated that Zhang's column 9, lines 55-60 provides that Zhang's wirings 302 and 303 are connecting to an external circuit (Office Action, page 9, line 5). Patentee respectfully submits that Zhang's ability to connect to an external circuit does not cure Zhang's deficiency as discussed above. As shown in Zhang's figure 4, an external circuit is connected to the wire 305 via the 303 where the pads 303a are located inside of the sealed area. Patentee respectfully submits that locating the connection pads within the sealing region is to provide the capability to place the peripheral drive circuits within the sealing region, it neither restricts placing the peripheral circuits only within sealing region nor precludes connecting to any external circuits. As discussed above, by positioning the connection pads within the sealing region, it provides the capability of placing a peripheral circuit within the sealing region which improves the moisture problem. As Zhang's figure 17 illustrates, although it improves the moisture problem in figure 16 prior art, it does not necessarily eliminate every outing wires. Therefore, positioning the connection pads within the sealing region simply provides an option for placing a circuit within sealing region and improving the moisture problem; positioning the connection pads within the sealing region does not preclude connecting to an external circuit. Therefore, Patentee respectfully submits that although Zhang also discloses connecting to an external circuit

as the Office stated, connecting to an external circuit by itself does not cure Zhang's deficiency which Zhang's invention does not disclose placing the connection pads within the sealing region.

Hence, Patentee respectfully submits that Zhang does not disclose or teach that the recited limitation of "*the dummy conductive patterns situated between the connection pads and the pixel electrodes*". And patentee further respectfully submits that the secondary reference does not cure Zhang's deficiency. For the reason discussed above, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 1 as required under 35 USC 103(a); hence, Patentee respectfully requests the Office to withdraw the rejection over claim 1 accordingly, and to issue favorable re-consideration.

Claims 3, 5-9, 11, and 14-17

Independent claims 9 and 17 recites the similar limitations as the claim 1 discussed above. Claims 3 and 5-8 depend on claim 1, thus they incorporate every recited limitation in claim 1. Claims 11 and 14-16 depend on claim 9, thus they incorporate every recited limitation in claim 9. For the reasons discussed above for claim 1, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 3, 5-9, 11, and 14-17 as required under 35 USC 103(a); thus, Patentee respectfully requests the Office to withdraw the rejection over the remaining claims 3, 5-9, 11, and 14-17, and to issue favorable re-consideration.

Conclusion

Claims 1, 3, 5-9, 11, and 14-17 are pending in this proceeding. In view of the reasons stated above, Patentee respectfully submits that the independent claims patentably define the present invention over the citations of record, and Patentee respectfully requests a favorable reconsideration and issuing allowance accordingly. Further, the dependent claims should also be allowable for the same reasons as their respective base claims and further due to the additional features that they recite. Separate and individual consideration of the dependent claims is respectfully requested. Examiner is invited to contact the attorney on record to expedite the prosecution in pursuance of allowance.

Respectfully submitted,
WPAT, P.C.

By____/Justin I. King/_____
Justin I. King
Registration No. 50,464

April 23, 2012
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Alexandria, VA 22314
Telephone (703) 684-4411
Facsimile (703) 880-7487

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 12600862 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 23-APR-2012 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 11:15:44 |
| Application Type: | Reexam (Third Party) |

Payment information:

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File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
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| 1 | Reexam Certificate of Service | certificate_of_service_OAR.pdf | 3830 <small>a20adfd1aca1b9a920be84b5f7bee1b55999872a</small> | no | 1 |

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| Multipart Description/PDF files in .zip description | | | |
|--|--|--------------|------------|
| Document Description | | Start | End |
| Amendment/Req. Reconsideration-After Non-Final Reject | | 1 | 1 |
| Claims | | 2 | 5 |
| Applicant Arguments/Remarks Made in an Amendment | | 6 | 11 |

Warnings:

Information:

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing RESPONSE TO OFFICE ACTION IN EX PARTE REEXAMINATION was served upon the following:

Song K. Jung

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by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

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| TO: TUAN NGUYEN Location: CRU Art Unit: 3992 Date: 06/04/2012 | From: MANUEL SALDANA Location: CRU 3999 MDE 5D14 Phone: (571) 272-7740 MANUEL.SALDANA@uspto.gov |
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Search Notes

Litigation was found for US Patent Number: **6,689,629**

DOCKET 3:07CV137 (06/01/07)

DOCKET 1:07CV357 (NOT CLOSED).

- 1) I performed a KeyCite Search in Westlaw, which retrieves all history on the patent including any litigation.
- 2) I performed a search on the patent in Lexis CourtLink for any open dockets or closed cases.
- 3) I performed a search in Lexis in the Federal Courts and Administrative Materials databases for any cases found.
- 4) I performed a search in Lexis in the IP Journal and Periodicals database for any articles on the patent.
- 5) I performed a search in Lexis in the news databases for any articles about the patent or any articles about litigation on this patent.

Date of Printing: Jun 04, 2012

KEYCITE

H US PAT 6689629 ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE, Assignee: International Business Machines (Feb 10, 2004)

History

Direct History

- => **1 ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE, US PAT 6689629, 2004 WL 247094 (U.S. PTO Utility Feb 10, 2004)**
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- 83 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002387 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 8, 2008) **Plaintiff LG Display Co., Ltd.'s Reply Brief In Support of its Motion to Strike CMO's Claim Construction Briefs** (NO. 106CV00726)
- 84 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 1347872 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 20, 2009) **Plaintiff Lg Display's Opening Brief in Support of its Motion to Compel Au Optronics Corporation and Chi Mei Optoelectronics Corporation to Provide Knowledgeable Deposition Witnesses and for Entry of** (NO. 106CV00726)
- 85 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 1347876 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 6, 2009) **Defendant Au Optronics Corporation's Answering Brief in Opposition to Plaintiff Lg Display Co., Ltd.'s Motion to Compel Auo to Provide Knowledgeable Deposition Witnesses and for Entry of Protective Or** (NO. 106CV00726)
- 86 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation, and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 1347859 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 17, 2009) **Defendant AU Optronics Corporation's Corrected Answering Brief in Opposition to Plaintiff's Motion to Strike Advice of Counsel Defense or in the Alternative, to Compel Production of Documents, Witness** (NO. 106CV00726)
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- 88 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants.,

- 2009 WL 3242274 (Trial Motion, Memorandum and Affidavit) (D.Del. May 1, 2009) **Chi Mei Optoelectronics' Motion in Limine No.2 to Preclude Lg Display from Presenting Evidence or Argument Regarding Findings of Infringement or Validity from Prior Litigation** (NO. 106CV00726)
- 89 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3242275 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Auo's Opening Brief in Support of Its Motion for Summary Judgment of Unenforceability of Claim 1 of Lgd's 449 Patent** (NO. 106CV00726)
- 90 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and Lg Display America, Inc., Defendants., 2009 WL 3242276 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 3 to Exclude Evidence of LG Display Settlement Agreements** (NO. 106CV00726)
- 91 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and CHI Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242277 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 4 to Exclude Testimony By Lgd's Expert Witness Arthur Cobb Due to Failure to Comply with the Requirements of FRCP 26** (NO. 106CV00726)
- 92 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242278 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 5 to Preclude Lg Display from Presenting Evidence or Argument Regarding the Supplemental Expert Report of Dr. Elliott Schlam and to Strike the Report** (NO. 106CV00726)
- 93 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242279 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No.6 to Preclude Lg Display Form Presenting Evidence or Argument Regarding the Rebuttal Expert Reports of Dr. Elliott Schlam and to Strike the Reports** (NO. 106CV00726)
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- 98 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3242284 (Trial Motion, Memorandum and Affidavit) (D.Del. May 12, 2009) **Plaintiff LG Display Company Ltd.'s Reply Breif in Support of Its Motion to Strike or Preclude Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc. From Asserting an Advice of Cou** (NO. 106CV00726)
- 99 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3242285 (Trial Motion, Memorandum and Affidavit) (D.Del. May 12, 2009) **LG Display Co., Ltd.'s Reply Brief in Support of Its Motion to Compel Auo to Provide Knowledgeable Witnesses on Key Inducement and Damages Deposition Topics** (NO. 106CV00726)
- 100 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORAION, et al., Defendants., 2009 WL 3242286 (Trial Motion, Memorandum and Affidavit) (D.Del. May 13, 2009) **LG Display Co., Ltd.'s Opposition to AUO's Motion to Supplement Briefing of Its Motion to Preclude LG Display's Reliance On Invalidating Prior Art** (NO. 106CV00726)
- 101 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; CHI, MEI Optoelectronics Corporation; and CHI MEI Optoelectronics USA, Inc., Defendants., 2009 WL 3242287 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **AUO's Opening Brief in Support of its Motion for Summary Judgment of Invalidity on all Claims of LGD's "274, "321 and "489 Patents** (NO. 106CV00726)
- 102 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3242288 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **Au Optronics' Motion in Limine No. 1 to Exclude any Opinion Testimony by LG Display's Technical Experts Regarding any Devices or Processess that they have not Analyzed** (NO. 106CV00726)

- 103 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245830 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **Au Optronics' Motion in Limine No.2 to Preclude Any Reference to the Prior Cpt Litigations** (NO. 106CV00726)
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- 105 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245832 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **AU Optronics' Motion in Limine No. 4 to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance By Experts on the Prior Testimony of Dr. Holmberg, Mr. Castleberry, and Mr. Ho Lee in** (NO. 106CV00726)
- 106 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245833 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Au Optronics' Motion in Limine No.5 to Preclude Lg Display from Introducing Any Evidence Regarding Yield Percentage and to Preclude Mr. Cobb from Offering Any Opinions Based Upon Yield Improvements** (NO. 106CV00726)
- 107 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245834 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **LG Display Co., Ltd.'s Motion in Limine No. 1 to Preclude Joyce Pan and James Chen from Testifying at Trial because They Were not Timely Identified by AU Optronics Corporation** (NO. 106CV00726)
- 108 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245835 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 2 to Preclude Auo's Experts from Asserting Prior Art Against Lg Display's Patents that They Did not Address in Their Expert Reports** (NO. 106CV00726)
- 109 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORP., et al., Defendants., 2009 WL 3245836 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **LG Display Co., Ltd's Motion Inlimine No. 4 to Preclude the Introduction of Testimony from the Deposition of Third Party Catalyst Sales, Inc. Prior to Appearance At the Deposition By All Counsel** (NO. 106CV00726)
- 110 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245837 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 3 to Preclude Auo from Offering Evidence Regarding Advice of Counsel** (NO. 106CV00726)
- 111 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al.,

- Defendants., 2009 WL 3245838 (Trial Motion, Memorandum and Affidavit) (D.Del. May 28, 2009) **Lg Display Co., Ltd.'s Opposition to Auo's "Addendum" to Its Motion Limine No. 7** (NO. 106CV00726)
- 112 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245839 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 5, 2009) **Auo's Opposition to Lgd's Motion in Limine to Preclude Auo from Introducing Live Testimony from Mr. Kuang-Tao ("Surf") Sung or Other Evidence Allegedly Showing Dates of Conception and Reduction to P** (NO. 106CV00726)
- 113 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245840 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 5, 2009) **Addendum to AUO's Motion in Limine No. 7 (D.I. 1266), Regarding Additional Untimely Prior Art Documents (LGD 2170033-2170457, Produced by LGD on May 26, 2009)** (NO. 106CV00726)
- 114 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245841 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 8, 2009) **Au Optronics' Response to Lg Display Co. Ltd.'s Motion in Limine No.5 to Preclude Introduction of Evidence or Opinion Testimony Concerning Electro-Static Discharge Repairs and Repair Costs** (NO. 106CV00726)
- 115 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245842 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 8, 2009) **Au Optronics' Response to Lg Display Co. Ltd.'s Motion in Limine No. 3** (NO. 106CV00726)
- 116 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245843 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Motion in Limine No.5 to Preclude Auo from Introducing Evidence or Opinion Testimony Concerning Purported Electro-Static Discharge Repairs and Repair Costs** (NO. 106CV00726)
- 117 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245844 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 5** (NO. 106CV00726)
- 118 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORP., et al., Defendants., 2009 WL 3245845 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Opposition to Au Optronics Corporation's Motion in Limine No.6 to Preclude Lgd from Relying On Certain Defenses and Evidence that Lgd Failed to Disclose During Discovery** (NO. 106CV00726)
- 119 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245846 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 4**

- to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance By Experts On the Prior Testimony of Dr. Ho** (NO. 106CV00726)
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- 121 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245848 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 2 to Preclude Any Reference to the Prior Cpt Litigations** (NO. 106CV00726)
- 122 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245849 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Motion in Limine to Preclude AU Optronics Corporation from Introducing Live Testimony from Mr. Kuang-Tao ("Surf") Sung or Other Evidence Allegedly Showing Dates of Conception** (NO. 106CV00726)
- 123 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833076 (Trial Motion, Memorandum and Affidavit) (D.Del. May 10, 2010) **Memorandum of Law in Support of Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence** (NO. 106CV00726)
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- 126 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833079 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 7, 2010) **Reply Memorandum of Law in Support of Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence** (NO. 106CV00726)
- 127 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 7581333 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 14, 2010) **Au Optronics Corporation's Reply Brief in Support of Its Amended Motion to Strike Portions of LG Display Co. Ltd.'s Declarations Submitted in Support of Its Opposition to Motion for Permanent Injuncti** (NO. 06-726-LPS, 07-357-LPS, 08-355-LPS)
- 128 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 7581308 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 15, 2010) **Reply Memorandum On Behalf of LG Display Co., Ltd. and LG Display America, Inc. in Support of Their Motion to Strike the September 8,2010 Amended Declaration of Jonathan D. Putnam (D.I. 1595) and the** (NO. 06CV00726)

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- 130 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2011 WL 4465148 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 12, 2011) **Memorandum of Law in Support of Intervenor Anvik Corporation's Motion for Reconsideration or Reargument** (NO. 06-726-LPS, 07-357-LPS)
- 131 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2011 WL 4465150 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 31, 2011) **LG Display Co., Ltd.'s Opposition to Anvik Corporation's Motion for Reconsideration or Reargument** (NO. 06-357 (LPS), 06-726 (LPS))
- 132 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2011 WL 4043622 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 7, 2011) **Intervenor Anvik Corporation's Reply Memorandum of Law in Support of Motion for Reconsideration or Reargument** (NO. 06-726-LPS, 07-357-LPS)
- 133 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; CHI MEI Optoelectronics Corporation; and CHI MEI Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2011 WL 4465152 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 7, 2011) **Intervenor Anvik Corporation's Reply Memorandum of Law in Support of Motion for Reconsideration or Reargument** (NO. 06-726-LPS, 07-357-LPS)
- 134 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2011 WL 4465153 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 8, 2011) **Au Optronics Corporation's and Au Optronics Corporation America's Answering Brief in Opposition to LG Display Co., Ltd.'s and LG Display America, Inc.'s Motion Pursuant to Fed. R. Civ. P. 52(b) and 59** (NO. 06CV00726)

D.Del. Expert Resumes

- 135 John D. Villasenor, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877461 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of John D. V** (NO. 106CV00726)
- 136 Pochi Yeh, curriculum vitae filed in LG. Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889166 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert**

Resume of Pochi Yeh (NO. 106CV00726)

- 137 Miltiadis K. Hatalis, curriculum vitae filed in LG, Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889167 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of Miltiadis K. Hatalis (NO. 106CV00726)**
- 138 David A. Eccles, curriculum vitae filed in LG, Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877462 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of David A. Eccles (NO. 106CV00726)**
- 139 Allan R. Kmetz, curriculum vitae filed in LG, Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877463 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of Allan R. Kmetz (NO. 106CV00726)**
- 140 George M. Pharr, curriculum vitae filed in LG, Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6882352 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of George M. Pharr (NO. 106CV00726)**
- 141 Tsu-Jae King Liu, curriculum vitae filed in Lg. Philips Lcd Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2010 WL 5817594 (Court-filed Expert Resume) (D.Del. Mar. 2, 2010) **Expert Resume of Tsu-Jae King Liu (NO. 106CV00726)**

D.Del. Trial Filings

- 142 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159025 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart (NO. 06CV00726)**
- 143 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159026 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart (NO. 06CV00726)**
- 144 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159027 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart (NO. 06CV00726)**
- 145 LG PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159028 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart (NO. 06CV00726)**
- 146 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159029 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart (NO. 06CV00726)**
- 147 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159030 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart (NO. 06CV00726)**
- 148 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159031 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart (NO. 06CV00726)**
- 149 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159032 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart (NO. 06CV00726)**
- 150 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159033 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart (NO. 06CV00726)**
- 151 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159034 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart (NO. 06CV00726)**
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- 158 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159041 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 159 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159042 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
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- 225 George M. Pharr, curriculum vitae filed in LG, Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6882352 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of George M. Pharr (NO. 106CV00726)**
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Assignments

- 230 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
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- .. Request for Re-Examination, (OG DATE: May 25, 2010)

Docket Summaries

- 233 AU OPTRONICS CORPORATION v. LG.PHILIPS LCD CO. LTD. ET AL, (D.DEL. Jun 06, 2007) (NO. 1:07CV00357), (35 USC 271 PATENT INFRINGEMENT)
- 234 AU OPTRONICS CORPORATION v. LG.PHILIPS LCD CO., LTD., (W.D.WIS. Mar 08, 2007)

(NO. 3:07C00137), (PROPERTY RIGHTS; PATENT)

Prior Art (Coverage Begins 1976)

- C** 235 LIQUID CRYSTAL DISPLAY DEVICE HAVING PERIPHERAL DUMMY LINES, US PAT 5285301 Assignee: Hitachi, Ltd., (U.S. PTO Utility 1994)
- C** 236 LIQUID CRYSTAL DISPLAY WITH ENHANCED GATE PAD PROTECTION AND METHOD OF MANUFACTURING THE SAME, US PAT 6163356 Assignee: LG Electronics, (U.S. PTO Utility 2000)

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| Items 1 to 2 of 2 | | | | | | | | | |
|--------------------------|---------------------------|---------------------|--------------------|---|-------------|---------------------------|----------|----------------|--|
| <input type="checkbox"/> | Patent | Class | Subclass | Description | All Court | Docket Number | Filed | Date Retrieved | |
| <input type="checkbox"/> | 6,689,629 | 438 | 25 | AU Optronics Corporation v. Lg.philips LCD Co Ltd et al | US-DIS-DED | 1:07cv357 | 6/6/2007 | 3/4/2011 | |
| <input type="checkbox"/> | 6,689,629 | 438 | 25 | AU Optronics Corporation v. Lg.philips LCD Co, Ltd | US-DIS-WIWD | 3:07cv137 | 3/8/2007 | 11/5/2009 | |

Items 1 to 2 of 2

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| Date | # | Proceeding Text |
|------------|----|---|
| 03/08/2007 | -- | NORTC - FEE PAID. |
| 03/08/2007 | 1 | JS-44 |
| 03/08/2007 | 2 | COMPLAINT - SUMMONS ISSUED. |
| 03/08/2007 | 3 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY PLTF. |
| 03/15/2007 | 4 | SUMMONS |
| 03/29/2007 | 5 | NOTICE OF APPEARANCE BY JAMES PETERSON, BRADY WILLIAMSON, GASPARE BONO AND TYLER GOODWYN FOR DEFTS. |
| 03/29/2007 | 6 | MOTION TO DISMISS BY DEFTS. |
| 03/29/2007 | 7 | BRIEF IN SUPPORT OF DEFTS. MOTION TO DISMISS. |
| 03/29/2007 | 8 | AFFIDAVIT OF DONG HOON HAN. |
| 03/29/2007 | 9 | MOTION TO ADMIT GASPARE J. BONO PRO HAC VICE. |
| 03/29/2007 | 10 | MOTION TO ADMIT TYLER GOODWYN PRO HAC VICE. |
| 03/29/2007 | 11 | AFFIDAVIT OF JAMES D. PETERSON IN SUPPORT OF MOTION TO ADMIT GASPARE J. BONO PRO HAC VICE. |
| 03/29/2007 | 12 | AFFIDAVIT OF JAMES D. PETERSON IN SUPPORT OF MOTION TO ADMIT TYLER GOODWYN PRO HAC VICE. |
| 04/02/2007 | 13 | ORDER ADMITTING GASPARE BONO PRO HAC VICE. |
| 04/02/2007 | 14 | ORDER ADMITTING R. TYLER GOODWYN PRO HAC VICE. |
| 04/03/2007 | 15 | MOTION TO ADMIT ATTYS. M.TYLER, B.RANGE, B.DIETZEL, J.CHEN, R.SHULMAN AND S.BAIK PRO HAC VICE. |
| 04/03/2007 | 16 | AFFIDAVIT OF JAMES R. TROUPIS. |
| 04/03/2007 | 17 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY DEFT. LG.PHILIPS LTD. |
| 04/03/2007 | 18 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY DEFT. LG.PHILIPS AMERICA. |
| 04/04/2007 | 19 | ORDER ADMITTING M.TYLER, B.RANGE, B.DIETZEL, J.CHEN, R.SHULMAN AND S.BAIK PRO HAC VICE. |
| 04/16/2007 | 20 | PPTC REPORT BY PLTF. |
| 04/16/2007 | 21 | PPTC REPORT BY DEFTS. |

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| 04/16/2007 | 22 | MOTION BY DEFTS. TO TRANSFER TO DISTRICT OF DELAWARE. |
| 04/16/2007 | 23 | BRIEF IN SUPPORT OF DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. |
| 04/16/2007 | 24 | AFFIDAVIT OF R.TYLER GOODWYN. |
| 04/17/2007 | 25 | EXHIBIT 1 TO AFFIDAVIT OF DONG HOON HAN FILED 3/29/07. |
| 04/17/2007 | 26 | WAIVER OF SERVICE OF SUMMONS BY DEFT. LG.PHILIPS LTD. |
| 04/18/2007 | 27 | BRIEF IN OPPOSITION BY PLTF. TO DEFTS. MOTION TO DISMISS. |
| 04/18/2007 | 28 | AFFIDAVIT OF DAVID W. PANNECK. |
| 04/18/2007 | 29 | AFFIDAVIT OF MICHAEL LESTINA. |
| 04/19/2007 | 30 | PTC ORDER - AMENDMENTS TO PLEADINGS DUE 5/15/07; DISPOSITIVE MOTIONS DUE 7/30/07. |
| 04/30/2007 | 31 | BRIEF IN REPLY IN SUPPORT OF DEFTS. MOTION TO DISMISS. |
| 04/30/2007 | 32 | AFFIDAVIT OF DONG HOON HAN (SUPPLEMENTAL). |
| 05/02/2007 | 33 | MOTION BY PLTF. TO ADMIT JAMES C. YOON AND JULIE HOLLOWAY PRO HAC VICE. |
| 05/02/2007 | 34 | AFFIDAVIT OF JAMES R. TROUPIS. |
| 05/03/2007 | 35 | ORDER ADMITTING JAMES YOON AND JULIE HOLLOWAY PRO HAC VICE. |
| 05/03/2007 | 36 | BRIEF IN REPLY (CORRECTED) IN SUPPORT OF DEFT. LG PHILIPS LCD AMERICA MOTION TO DISMISS. |
| 05/07/2007 | 37 | BRIEF IN OPPOSITION BY PLTF. TO DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. |
| 05/07/2007 | 38 | AFFIDAVIT OF PAUL BARBATO. |
| 05/07/2007 | 39 | AFFIDAVIT OF ARIS K. SILZARS. |
| 05/17/2007 | 40 | BRIEF IN REPLY IN SUPPORT OF DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. |
| 05/18/2007 | 41 | MOTION BY PLTF. TO COMPEL DEFT. LG PHILIPS LCD AMERICA TO RESPOND TO REQ. FOR PROD. OF INTERROGS. |
| 05/18/2007 | 42 | BRIEF IN SUPPORT OF PLTF. MOTION TO COMPEL. |
| 05/18/2007 | 43 | AFFIDAVIT OF JAMES R. TROUPIS. |
| 05/18/2007 | 44 | AFFIDAVIT (2ND) OF DAVID W. PANNECK. |
| 05/22/2007 | 45 | BRIEF IN OPPOSITION BY DEFTS. TO PLTF. MOTION TO COMPEL. |
| 05/22/2007 | 46 | AFFIDAVIT OF NICOLE TALBOTT SETTLE. |
| 05/23/2007 | -- | TELE. MOTION HEARING SET ON #41 FOR 5/30/07, 8:30 AM. |
| 05/24/2007 | -- | RECD. PROPOSED PROTECTIVE ORDER; FORWARDED TO CHAMBERS. |
| 05/29/2007 | 47 | JOINT RULE 26 REPORT. |
| 05/30/2007 | 48 | PROTECTIVE ORDER |
| 05/30/2007 | 49 | ORDER TRANSFERRING CASE TO DISTRICT OF DELAWARE. |
| 06/01/2007 | -- | RECORD SENT TO DISTRICT OF DELAWARE. |
| 07/21/2008 | -- | Further docketing is in CM/ECF at pacer.wiwd.uscourts.gov |

US District Court Civil Docket

U.S. District - Delaware
(Wilmington)

1:07cv357

Au Optronics Corporation v. Lg.Philips Lcd Co Ltd et al

This case was retrieved from the court on Friday, March 04, 2011

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| Date Filed: 06/06/2007 | Class Code: OPEN |
| Assigned To: Judge Leonard P Stark | Closed: No |
| Referred To: | Statute: 35:271 |
| Nature of suit: Patent (830) | Jury Demand: Defendant |
| Cause: Patent Infringement | Demand Amount: \$0 |
| Lead Docket: 1:06-cv-00726-LPS | NOS Description: Patent |
| Other Docket: 1:06-cv-00726-LPS 1:08-cv-00355-LPS 1:10-cv-00706 | |
| Jurisdiction: Federal Question | |

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| Date | # | Proceeding Text |
|------------|----|--|
| 06/06/2007 | 49 | Record of case transferred in from District of Wisconsin(Western); Case Number in Other District: 07-C-137. Copy of Docket Sheet and original file with documents numbered 1-49 attached. (Attachments: # 1 DI #1# 2 DI #2# 3 Exhibit A to DI #2# 4 Exhibit B to DI #2# 5 Exhibit C to DI #2# 6 DI #3# 7 DI #4# 8 DI #5# 9 DI #6# 10 DI #7# 11 DI #8# 12 DI #9# 13 DI #10# 14 DI #11# 15 DI #12# 16 DI #13# 17 DI #14# 18 DI #15# 19 DI #16# 20 DI #17# 21 DI #18# 22 DI #19# 23 DI #20# 24 DI #21# 25 DI #22# 26 DI #23# 27 DI #24- SEALED DOCUMENT# 28 DI #25# 29 DI #26# 30 DI #27# 31 DI #28# 32 DI #29# 33 Exhibit A to DI #29# 34 Exhibit B to DI #29# 35 Exhibit C to DI #29# 36 Exhibit D to DI #29# 37 Exhibit E to DI #29# 38 DI #30# 39 DI #31# 40 DI #32- SEALED DOCUMENT# 41 DI #33# 42 DI #34# 43 DI #35# 44 DI #36# 45 DI #37# 46 DI #38# 47 DI #39# 48 Exhibit A to DI #39# 49 DI #40# 50 DI #41# 51 DI #42# 52 DI #43# 53 DI #44# 54 DI #45# 55 DI #46# 56 Exhibit A to DI #46# 57 Exhibit B to DI #46# 58 DI #47# 59 DI #48# 60 DI #49)(ead) (Entered: 06/08/2007) |
| 06/06/2007 | -- | Order granting Motion To Transfer matter to U.S. District Court for the District of Delaware, signed by Judge Shabaz on 5/30/07 in U.S.D.C., Wisconsin(Western) - DI # in other district: 49. (ead) (Entered: 06/08/2007) |
| 06/06/2007 | 50 | COMPLAINT filed against LG.Philips LCD Co. Ltd., LG.Philips LCD America - - filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 3/8/07 as DI #2)(Attachments: # 1 Civil Cover Sheet)(ead) (Entered: 06/08/2007) |
| 06/06/2007 | 51 | MOTION to Dismiss for Improper Venue - filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI #6) (ead) (Entered: 06/08/2007) |
| 06/06/2007 | 52 | OPENING BRIEF in Support re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI #7) (ead) (Entered: 06/08/2007) |
| 06/06/2007 | 53 | AFFIDAVIT of Dong Hoon Han- filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI #8)(ead) (Entered: 06/08/2007) |
| 06/06/2007 | 54 | ANSWERING BRIEF in Opposition re 51 MOTION to Dismiss for Improper Venue filed by AU |

Optronics Corporation. (Filed in USDC/WD/WI on 4/18/07 as DI #27) (ead) (Entered: 06/08/2007)

06/06/2007 55 REPLY BRIEF re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 4/30/07 as DI #31)(ead) (Entered: 06/08/2007)

06/06/2007 56 REPLY BRIEF re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. CORRECTED (Filed in USDC/WD/WI on 5/3/07 as DI #36) (ead) (Entered: 06/08/2007)

06/06/2007 57 MOTION to Compel LG.Philips LCD America to Respond to Requests for Production and Interrogatories and for Other Relief - filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI #41) (ead) (Entered: 06/08/2007)

06/06/2007 58 OPENING BRIEF in Support re 57 MOTION to Compel filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI #42) (ead) (Entered: 06/08/2007)

06/06/2007 59 AFFIDAVIT of James R. Troupis re 57 MOTION to Compel filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI #43) (ead) (Entered: 06/08/2007)

06/06/2007 60 AFFIDAVIT of David W. Panneck re 57 MOTION to Compel filed by AU Optronics Corporation. (Attachments: # 1 Notice of Filing of Paper Documents- Exhibits A-G) (Filed in USDC/WD/WI on 5/18/07 as DI #44)(ead) (Entered: 06/08/2007)

06/06/2007 61 ANSWERING BRIEF in Opposition re 57 MOTION to Compel filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 5/22/07 as DI #45) (ead) (Entered: 06/08/2007)

06/06/2007 62 AFFIDAVIT of Nicole Talbott Settle re 61 Answering Brief in Opposition filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 5/22/07 as DI #46) (ead) (Entered: 06/08/2007)

06/06/2007 63 NOTICE of filing the following document(s) in paper format: Exhibits A-T to Declaration of David W. Panneck (DI #28 Filed in USDC/WD/WI on 4/18/07)). Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation. (ead) (Entered: 06/08/2007)

06/06/2007 64 NOTICE of filing the following document(s) in paper format: Exhibits A-W to Declaration of Paul Barbato. (DI #38 Filed in USDC/WD/WI on 5/7/07) Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation. (ead) (Entered: 06/08/2007)

06/06/2007 65 NOTICE of filing the following document(s) in paper format: Exhibits A-G to Declaration of David W. Panneck. (Filed as DI #44 in USDC/WD/WI on 5/18/07) Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation (ead) (Entered: 06/08/2007)

06/08/2007 66 Local Counsel Letter sent to James D. Peterson. Notice of Compliance deadline set for 7/12/2007. (ead) (Entered: 06/08/2007)

06/08/2007 67 Local Counsel Letter sent to James P. Troupis. Notice of Compliance deadline set for 7/12/2007. (ead) (Entered: 06/08/2007)

06/08/2007 68 Report to the Commissioner of Patents and Trademarks for Patent/Trademark Number(s) 6,689,629; 6,976,781; 6,778,160; (ead) (Entered: 06/08/2007)

06/08/2007 69 SEALED AFFIDAVIT of R. Tyler Goodwyn in Support of LG.Philips LCD Co. Ltd's Motion to Transfer to the District of Delaware filed by LG.Philips LCD Co. Ltd. (Filed in USDC/WD/WI on 4/16/07 as DI #24) (ead) (Entered: 06/08/2007)

06/08/2007 70 SEALED AFFIDAVIT of Dong Hoon Han in Support of LG.Philips LCD America's Motion to Dismiss re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (ead) (Entered: 06/08/2007)

06/08/2007 71 NOTICE of Appearance by Richard D. Kirk on behalf of LG.Philips LCD Co. Ltd., LG.Philips LCD America (Kirk, Richard) (Entered: 06/08/2007)

06/11/2007 72 ANSWER to Complaint with Jury Demand, COUNTERCLAIM against AU Optronics Corporation by LG.Philips LCD America. (Attachments: # 1 Certificate of Service)(Kirk, Richard) (Entered: 06/11/2007)

06/11/2007 73 ANSWER to Complaint with Jury Demand, COUNTERCLAIM against AU Optronics Corporation America, Chi Mei Optoelectronics Corporation, CHI MEI OPTOELECTRONICS USA, INC., AU Optronics Corporation by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A# 2 Exhibit B# 3 Exhibit C# 4 Certificate of Service)(Kirk, Richard) (Entered: 06/11/2007)

06/12/2007 74 PRAECIPE filed by Richard D. Kirk on behalf of LG.Philips LCD Co. Ltd. requesting Clerk to issue

Summonses (Attachments: # 1 Certifidate of Service)(Kirk, Richard) (Entered: 06/12/2007)

06/12/2007 -- Summons Issued as to AU Optronics Corporation America on 6/12/2007; CHI MEI OPTOELECTRONICS USA, INC. on 6/12/2007. (eew) (Entered: 06/12/2007)

06/13/2007 -- Summons Issued as to Chi Mei Optoelectronics Corporation on 6/13/2007. (eew) (Entered: 06/13/2007)

06/14/2007 75 Return of Service Executed by LG.Philips LCD Co. Ltd.. CHI MEI OPTOELECTRONICS USA, INC. served on 6/12/2007, answer due 7/2/2007. (Kirk, Richard) (Entered: 06/14/2007)

06/14/2007 76 NOTICE OF SERVICE OF ANSWER TO COMPLAINT WITH COUNTERCLAIMS ON DEFENDANT CHI MEI OPTOELECTRONICS CORPORATION PURSUANT TO 10 DEL.C. SECTION 3104 by LG.Philips LCD Co. Ltd. (Kirk, Richard) (Entered: 06/14/2007)

06/14/2007 77 NOTICE OF SERVICE OF ANSWER TO COMPLAINT WITH COUNTERCLAIMS ON DEFENDANT AU OPTRONICS CORPORATION AMERICA A/K/A AU OPTRONICS AMERICA, INC. PURSUANT TO 10 DEL.C.SECTION 3104 by LG.Philips LCD Co. Ltd. (Kirk, Richard) (Entered: 06/14/2007)

06/18/2007 78 NOTICE of Appearance by Ashley Blake Stitzer on behalf of LG.Philips LCD Co. Ltd., LG.Philips LCD America (Stitzer, Ashley) (Entered: 06/18/2007)

06/18/2007 79 NOTICE OF SERVICE of LG. PHILIPS LCD'S OBJECTIONS TO AU OPTRONICS CORPORATION'S SECOND SET OF INTERROGATORIES (NO. 17) by LG.Philips LCD Co. Ltd..(Stitzer, Ashley) (Entered: 06/18/2007)

06/21/2007 80 ANSWER to Counterclaim, COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation America.(Pascale, Karen) (Entered: 06/21/2007)

06/21/2007 81 ANSWER to Counterclaim of LG.Philips LCD Co., LTD. , COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation. (Attachments: # 1 Exhibit A-C)(Pascale, Karen) (Entered: 06/21/2007)

06/21/2007 82 ANSWER to Counterclaim of LG.Philips LCD America, Inc. , COUNTERCLAIM against LG.Philips LCD America by AU Optronics Corporation. (Attachments: # 1 Exhibit A-C)(Pascale, Karen) (Entered: 06/21/2007)

06/26/2007 83 Joint MOTION to Consolidate Cases - filed by AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America. (Attachments: # 1 Text of Proposed Order Of Consolidation# 2 Certificate of Compliance Local Rule 7.1.1 Statement)(Pascale, Karen) (Entered: 06/26/2007)

06/26/2007 84 NOTICE of Joint Motion To Consolidate by AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America re 83 MOTION to Consolidate Cases (Pascale, Karen) (Entered: 06/26/2007)

06/26/2007 85 Joint STATEMENT re 83 MOTION to Consolidate Cases, 84 Notice (Other) Following Transfer Pursuant To Local Rule 81.2 by AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America. (Pascale, Karen) (Entered: 06/26/2007)

06/29/2007 86 NOTICE OF SERVICE of LG.PHILIPS LCD CO., LTD.'S OBJECTIONS TO AU OPTRONICS CORPORATION'S SECOND SET OF DOCUMENTS REQUESTS (NOS. 143-152) by LG.Philips LCD Co. Ltd..(Stitzer, Ashley) (Entered: 06/29/2007)

07/02/2007 87 ANSWER to Counterclaim, COUNTERCLAIM CHI MEI OPTOELECTRONICS USA, INC.'S ANSWER, AFFIRMATIVE DEFENSES AND COUNTERCLAIMS TO THE COUNTERCLAIMS OF LG. PHILIPS LCD CO., LTD. against LG.Philips LCD Co. Ltd. by CHI MEI OPTOELECTRONICS USA, INC..(Rovner, Philip) (Entered: 07/02/2007)

07/03/2007 88 MOTION for Pro Hac Vice Appearance of Attorney M. Craig Tyler, Brian D. Range and Julie M. Holloway - filed by AU Optronics Corporation America, AU Optronics Corporation. (Pascale, Karen) (Entered: 07/03/2007)

07/05/2007 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person, MOTION to Dismiss for Insufficiency of Service of Process - filed by Chi Mei Optoelectronics Corporation. (Rovner, Philip) (Entered: 07/05/2007)

07/05/2007 -- Set Briefing Schedule: re 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person MOTION to Dismiss for Insufficiency of Service of Process. Answering Brief due 7/23/2007. (lec) (Entered: 07/06/2007)

07/06/2007 90 Joint MOTION to Consolidate Cases - filed by LG. Philips LCD America, Inc., AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd.. (Pascale, Karen) (Entered: 07/06/2007)

07/06/2007 91 Joint NOTICE of Motion (Re-Notice) and Withdrawal of Motion by LG. Philips LCD America, Inc., AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd. re 92 Joint MOTION to Consolidate Cases, 90 MOTION to Consolidate Cases (Pascale, Karen) (Entered: 07/06/2007)

07/10/2007 92 Amended ANSWER to Counterclaim of LG. Philips LCD Co. Ltd. , COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation America.(Pascale, Karen) (Entered: 07/10/2007)

07/10/2007 93 Amended ANSWER to Counterclaim of LG.Philips LCD Co. Ltd. , COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation. (Attachments: # 1 Exhibit A - C)(Pascale, Karen) (Entered: 07/10/2007)

07/10/2007 -- SO ORDERED D.I. 88 MOTION for Pro Hac Vice Appearance of Attorney M. Craig Tyler, Brian D. Range and Julie M. Holloway filed by AU Optronics Corporation, AU Optronics Corporation America. Signed by Judge Joseph J. Farnan, Jr. on 7/10/2007. (lec) (Entered: 07/10/2007)

07/11/2007 -- ORAL ORDER re 57 MOTION to Compel filed by AU Optronics Corporation. This motion will be decided after a decision has been rendered on the pending Motion to Consolidate. Therefore, the Notice for the Motion Day Hearing of July 13, 2007 is cancelled. Ordered by Judge Joseph Farnan this 11th day of July, 2007. (dlk) (Entered: 07/11/2007)

07/11/2007 94 ANSWER to Counterclaim filed by AU Optronics Corporation by LG.Philips LCD America.(Kirk, Richard) (Entered: 07/11/2007)

07/12/2007 95 NOTICE of Withdrawal of Motion to Compel LG.Philips LCD America to Respond to Requests for Production and Interrogatories and for Other Relief by AU Optronics Corporation re 57 MOTION to Compel (Pascale, Karen) (Entered: 07/12/2007)

07/16/2007 96 Disclosure Statement pursuant to Rule 7.1 filed by AU Optronics Corporation, AU Optronics Corporation America. (Pascale, Karen) (Entered: 07/16/2007)

07/19/2007 97 Disclosure Statement pursuant to Rule 7.1 filed by Chi Mei Optoelectronics Corporation identifying CHI MEI CORPORATION as Corporate Parent. (Rovner, Philip) (Entered: 07/19/2007)

07/19/2007 98 Disclosure Statement pursuant to Rule 7.1 filed by CHI MEI OPTOELECTRONICS USA, INC. identifying CMO JAPAN CO., LTD. as Corporate Parent. (Rovner, Philip) (Entered: 07/19/2007)

07/19/2007 99 ANSWERING BRIEF in Opposition re 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person MOTION to Dismiss for Insufficiency of Service filed by LG.Philips LCD America, LG.Philips LCD Co. Ltd..Reply Brief due date per Local Rules is 7/30/2007. (Attachments: # 1 Certificate of Service)(Stitzer, Ashley) (Entered: 07/19/2007)

07/19/2007 100 ORDER GRANTING D.I. 90 Motion to Consolidate Cases. This case is consolidated into Civil Action No. 06-726-GMS. All future filings shall be captioned and filed only in the consolidated lead case. Signed by Judge Joseph J. Farnan, Jr. on 07/19/2007. (dlk) (Entered: 07/23/2007)

07/19/2007 -- Case associated with lead case: Create association to 1:06-cv-00726-GMS. (dlk) (Entered: 07/23/2007)

07/23/2007 -- Case reassigned to Judge Gregory M. Sleet. Please include the initials of the Judge (GMS) after the case number on all documents filed. (Please note all future filings shall still be captioned and filed only in the consolidated lead case 1:06-cv-00726) (rjb) (Entered: 07/23/2007)

07/23/2007 101 ANSWER to Counterclaim of defendant Chi Mei Optoelectronics USA, Inc. by LG.Philips LCD America. (Attachments: # 1 certificate of service)(Kirk, Richard) (Entered: 07/23/2007)

07/24/2007 102 ANSWER to Counterclaim OF AU OPTRONICS CORPORATION AMERICA , COUNTERCLAIM against AU Optronics Corporation America by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A)(Kirk, Richard) (Entered: 07/24/2007)

07/24/2007 103 ANSWER to Counterclaim OF AU OPTRONICS CORPORATION , COUNTERCLAIM against AU Optronics Corporation by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A)(Kirk, Richard) (Entered: 07/24/2007)

09/28/2007 104 NOTICE of AU Optronics Corporation's Reply to LG.Philips LCD Co., Ltd's Additional Counterclaims by AU Optronics Corporation re 138 Answer to Counterclaim (Pascale, Karen) (Entered: 09/28/2007)

09/28/2007)

- 12/14/2007 -- Case reassigned to Judge Joseph J. Farnan, Jr. Please include the initials of the Judge (JJF) after the case number on all documents filed. (rjb) (Entered: 12/14/2007)
- 03/13/2008 -- CORRECTING ENTRY: Amended the party name for plaintiff and counterclaim plaintiff LG. Philips LCD Co., LTD to LG Display Co., Ltd., per DI # 161 ;and amended defendant and counterclaim plaintiff LG. Philips LCD America, Inc. to LG Display America, Inc., per DI # 161 . Also confirmed with counsel as to how the amended caption to read. (nms) (Entered: 03/13/2008)
- 03/28/2008 105 NOTICE of Service of AU Optronics Corporation's First Set of Requests for Production of Documents and Things to LG Display Co., Ltd., Nos. 1-110; AU Optronics Corporation's Second Set of Requests for Production of Documents to LG Display Co., Ltd. (Nos. 111-208); AU Optronics Corporation's First Set of Interrogatories to LG Display Co., Ltd. (Nos. 1-13), AU Optronics Corporation's Second Set of Interrogatories to LG Display Co., Ltd. (Nos. 14-23), and AU Optronics Corporation's Notice of Rule 30(b)(6) Deposition of Plaintiff LG Display Co. Ltd. by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation re (1 in 1:06-cv-00726-JJF) Complaint, (Keller, Karen) (Entered: 03/28/2008)
- 04/16/2008 106 TRANSCRIPT of Status Telephone Conference held on 2/14/2008 before Judge Farnan. Court Reporter: Dale C. Hawkins (Hawkins Reporting). (Transcript on file in Clerk's Office) (nms) (Entered: 04/16/2008)
- 04/25/2008 107 NOTICE OF SERVICE of Defendant AU Optronics Corporation's Objections and Responses to Plaintiff LG Display Co., Ltd.'s First Set of Interrogatories (Nos. 1-19); and Defendant AU Optronics Corporation's Objections and Responses to Plaintiff LG Display Co., Ltd.'s First Set of Requests for the Production of Documents and Things (Nos. 1-83) by AU Optronics Corporation.(Pascale, Karen) (Entered: 04/25/2008)
- 05/01/2008 108 Letter to The Honorable Mary Pat Thyng from Karen L. Pascale regarding production of license agreements - re (191 in 1:06-cv-00726-JJF) Letter. (Pascale, Karen) (Entered: 05/01/2008)
- 06/23/2008 109 NOTICE OF SERVICE of LG Display Co., Ltd.'s Objections and Responses to Attachment A to AU Optronics Corporation's Notice of Rule 30(b)(6) Deposition by LG Display Co., Ltd.. (Attachments: # 1 Certificate of Service)(Kirk, Richard) (Entered: 06/23/2008)
- 07/17/2008 110 NOTICE OF SERVICE of AU Optronics Corporations Responses and Objections to Plaintiff LG Display Co., Ltd.s Second Set of Interrogatories (Nos. 20-29); and AU Optronics Corporations Supplemental Objections and Responses to Plaintiff LG Display Co., Ltd.s First Set of Interrogatories (Nos. 1-19) by AU Optronics Corporation.(Pascale, Karen) (Entered: 07/17/2008)
- 07/30/2008 -- ORAL ORDER: LG Display Co., Ltd. shall file a response to the July 30, 2008 letter (D.I. 364 in 06-726) by Chi Mei Optoelectronics Corp. no later than 9:00 a.m. on July 31, 2008. Ordered by Judge Joseph J. Farnan, Jr. on 7/30/2008. (dlk) (Entered: 07/30/2008)
- 09/08/2008 -- ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding MOTION to Consolidate Cases filed by LG Display Co., Ltd., MOTION for Leave to File Second Amended Answer to AU Optronics Corporation's Amended Counterclaims and Additional Counterclaims filed by LG Display Co., Ltd., and the MOTION to Consolidate Cases DEFENDANT CHI MEI OPTOELECTRONICS CORPORATION'S MOTION TO CONSOLIDATE AND TO EXTEND DISCOVERY LIMITS filed by Chi Mei Optoelectronics Corporation. The motions will be decided on the papers submitted. Ordered by Judge Joseph J. Farnan, Jr. on 09/08/2008. (dlk) (Entered: 09/08/2008)
- 09/08/2008 -- ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding the CHI MEI OPTOELECTRONICS CORPORATION'S MOTION TO LIMIT THE NUMBER OF PATENTS-IN-SUIT AND STAY THE REMAINDER filed by Chi Mei Optoelectronics Corporation. A decision is deferred pending possible oral argument. Ordered by Judge Joseph J. Farnan, Jr. on 9/8/08. (dlk) (Entered: 09/08/2008)
- 09/08/2008 -- ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding Motion to Compel Chi Mei Optoelectronics Corporation to Provide Discovery filed by LG Display Co., Ltd., PLAINTIFFS CHI MEI OPTOELECTRONICS' MOTION TO COMPEL DEFENDANTS LG DISPLAY TO RESPOND TO INTERROGATORIES filed by Chi Mei Optoelectronics USA Inc.(D.I. 98 in 08-cv-00355-JJF), Chi Mei Optoelectronics Corporation, and DEFENDANTS CHI MEI OPTOELECTRONICS' MOTION TO COMPEL PLAINTIFFS LG DISPLAY TO PRODUCE DOCUMENTS RESPONSIVE TO DOCUMENT REQUEST NO. 98 filed by Chi Mei Optoelectronics Corporation. The Court will decide these motions on the papers submitted. Ordered by Judge Joseph J. Farnan, Jr. on 9/8/08. (dlk) (Entered: 09/08/2008)
- 11/20/2008 111 MOTION for Leave to File A First Amended Answer and Joinder In CMO's Motion For Leave To File A

First Amended Answer - filed by AU Optronics Corporation America, AU Optronics Corporation. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Local Rule 7.1.1 Statement)(Lundgren, Andrew) (Entered: 11/20/2008)

11/20/2008 112 NOTICE OF MOTION by AU Optronics Corporation America, AU Optronics Corporation re 111 MOTION for Leave to File ; Requesting the following Motion Day: December 19, 2008 (Lundgren, Andrew) Modified on 11/25/2008 (nms). (Entered: 11/20/2008)

12/04/2008 113 Amended NOTICE of [AUO's Amended Notice of Subpoena And Deposition to Centric Technical Sales on December 17, 2008] by AU Optronics Corporation America, AU Optronics Corporation re (234 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)

12/04/2008 114 Amended NOTICE of Subpoena And Deposition to Bell Microproducts, Inc. on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (230 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)

12/04/2008 115 Amended NOTICE of Subpoena And Deposition to Axis Group, Inc. on December 17, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (229 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)

12/04/2008 116 Amended NOTICE of Subpoena And Deposition to Avnet, Inc on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (228 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)

12/04/2008 117 Amended NOTICE of Subpoena And Deposition to Philips Electronics N.A., Inc. on December 17, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (344 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)

12/04/2008 118 Amended NOTICE of Subpoena And Deposition to LG Electronics Alabama, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (341 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)

12/04/2008 119 Amended NOTICE of Subpoena And Deposition to LG Electronics USA, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (342 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)

12/04/2008 120 Amended NOTICE of Subpoena And Deposition to LG Infocomm, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (340 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)

12/04/2008 121 Amended NOTICE of Subpoena And Deposition to LG International (America), Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (357 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)

12/04/2008 122 Amended NOTICE of Subpoena And Deposition to Catalyst Sales, Inc. on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (233 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)

12/08/2008 -- ORAL ORDER: The Court has reviewed the parties numerous email submissions regarding discovery disputes; therefore, Counsel shall appear for the December 19, 2008 Motion Day Hearing at 10:00 AM in Courtroom 4B before Judge Joseph J. Farnan, Jr. regarding these disputes. The non-prevailing party will be assessed all fees and costs associated with these disputes. Ordered by Judge Joseph J. Farnan, Jr. on 12/8/2008. (dlk) (Entered: 12/08/2008)

12/08/2008 -- CORRECTING ENTRY: The 12/8/2008 Oral Order has been corrected to note that the non-prevailing party will be assessed fees and costs associated with email discovery dispute. Associated Cases: 1:07-cv-00357-JJF, 1:06-cv-00726-JJF(dlk) (Entered: 12/08/2008)

12/12/2008 123 NOTICE of [AUO's Notice of Withdrawal of Amended Notice of Subpoena and Deposition of Philips Electronics N.A., Inc.] by AU Optronics Corporation America, AU Optronics Corporation re (117 in 1:07-cv-00357-JJF, 731 in 1:06-cv-00726-JJF) Notice (Other) (Lundgren, Andrew) (Entered: 12/12/2008)

12/22/2008 -- ORAL ORDER: The Court GRANTS parties Motions To Consolidate (D.I. 298 in 1:06-cv-00726-JJF, D.I. 89 in 1:08-cv-00355-JJF) and (D.I. 295 in 1:06-cv-00726-JJF). Accordingly, all future filings shall be made and captioned under C.A. No. 06-726 only.. Ordered by Judge Joseph J. Farnan, Jr. on 12/19/2008. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 12/22/2008)

12/22/2008 -- Case associated with lead case: Create association to 1:06-cv-00726-JJF. Associated Cases:

1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 12/22/2008)

- 01/23/2009 -- ORAL ORDER: LG's "motion" regarding 30(b)(6) depositions per Mr. Kirk's January 16, 2009 e-mail request is DENIED. CMO's e-mail request for 30(b)(6) deposition, per Mr. Rovner's January 21, 2009 e-mail is GRANTED.. Signed by Judge Joseph J. Farnan, Jr. on 1/22/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 01/23/2009)
- 02/27/2009 124 Joint Stipulation of Authenticity As To Certain Documents by CHI MEI OPTOELECTRONICS USA, INC., Chi Mei Optoelectronics Corporation, Au Optronics Corporation, AU Optronics Corporation America, LG Display Co. Ltd., LG Display America Inc.. (Pascale, Karen) Modified on 3/3/2009 (nms). (Entered: 02/27/2009)
- 03/03/2009 -- SO ORDERED, re (124 in 1:07-cv-00357-JJF, 1019 in 1:06-cv-00726-JJF, 106 in 1:08-cv-00355-JJF) Joint Stipulation of Authenticity as to Certain Documents, filed by LG Display America Inc., LG Display Co. Ltd., CHI MEI OPTOELECTRONICS USA, INC., AU Optronics Corporation America, Au Optronics Corporation, Chi Mei Optoelectronics Corporation. Signed by Judge Joseph J. Farnan, Jr. on 3/3/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(nms) (Entered: 03/03/2009)
- 03/09/2009 125 NOTICE OF SERVICE of Expert Report of Jonathan D. Putnam by Au Optronics Corporation, AU Optronics Corporation America.(Pascale, Karen) (Entered: 03/09/2009)
- 03/09/2009 126 NOTICE OF SERVICE of Expert Report of Dr. Aris K. Silzars on Infringement of AUO's Asserted '781, '160, '157, '506 and '069 Patents by LGD's Accused Products by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation.(Pascale, Karen) (Entered: 03/09/2009)
- 03/09/2009 127 NOTICE OF SERVICE of Report of Expert Abbie Gregg Regarding Invalidity of United States Patent Number 6,803,984; Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Number 4,624,737; Report of Expert Lawrence Tannas, Jr. Regarding Invalidity of United States Patent Number 7,218,374; Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Numbers 5,905,274, 6,815,321, and 7,176,489; Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,019,002; Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 6,664,569; and Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,825,449 by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation.(Pascale, Karen) (Entered: 03/09/2009)
- 05/10/2009 128 Official Transcript of Pretrial Conference held on 05-07-09 before Judge Joseph J. Farnan, Jr. Court Reporter/Transcriber Leonard A. Dibbs. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Transcriber before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER (Redaction Request due 6/1/2009., Redacted Transcript Deadline set for 6/10/2009., Release of Transcript Restriction set for 8/10/2009.). (lad) (Entered: 05/10/2009)
- 05/12/2009 129 MEMORANDUM ORDER Setting Bench Trial between LG and AUO for 6/2/2009 09:30 AM in Courtroom 4B before Judge Joseph J. Farnan, Jr. A second Pretrial Conference is set for 5/20/2009 01:30 PM in Courtroom 4B before Judge Joseph J. Farnan, Jr. (See Order for details). Signed by Judge Joseph J. Farnan, Jr. on 5/12/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF(dlk) (Entered: 05/12/2009)
- 05/21/2009 130 Official Transcript of Final Pretrial Conference held on 05-20-09 before Judge Joseph J. Farnan, Jr. Court Reporter/Transcriber Leonard A. Dibbs. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Transcriber before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER (Redaction Request due 6/11/2009., Redacted Transcript Deadline set for 6/22/2009., Release of Transcript Restriction set for 8/19/2009.). (lad) (Entered: 05/21/2009)
- 05/22/2009 131 REDACTED VERSION of (1266 in 1:06-cv-00726-JJF) SEALED MOTION in Limine No. 7 To Preclude LGD's Reliance On Certain Prior Art Products And Foreign Language References by AU Optronics Corporation. (Attachments: # 1 Text of Proposed Order)(Pascale, Karen) (Entered: 05/22/2009)
- 07/20/2009 -- CORRECTING ENTRY: Official Transcripts of 10 day Bench Trial held in June 2009 (DI 132 thru 141) removed from member case CA 07-357 JJF. For information regarding these transcripts, SEE LEAD CASE CA 06-726 JJF, DI 1366 thru 1375. (rbe) (Entered: 07/20/2009)
- 06/03/2010 133 NOTICE of Appearance by Colm F. Connolly on behalf of LG Display America Inc., LG Display America, Inc., LG Display America, Inc. (Connolly, Colm) (Entered: 06/03/2010)
- 06/04/2010 134 MOTION for Pro Hac Vice Appearance of Attorney Kell M. Damsgaard, Thomas B. Kenworthy, and Collin W. Park - filed by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG

Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 06/04/2010)

06/07/2010 135 MOTION for Pro Hac Vice Appearance of Attorney John D. Zele - filed by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 06/07/2010)

06/14/2010 -- CORRECTING ENTRY: D.I. 132 was removed from the docket as it was corrected by D.I. 133. (nms) (Entered: 06/14/2010)

07/16/2010 136 PROPOSED Final Judgment ORDER, by AU Optronics Corporation America, Au Optronics Corporation. (Lundgren, Andrew) Modified on 7/19/2010 (nms). (Entered: 07/16/2010)

07/16/2010 137 Letter to The Honorable Joseph J. Farnan, Jr. from Andrew A. Lundgren regarding Proposed Final Judgment Order. (Lundgren, Andrew) Modified on 7/19/2010 (nms). (Entered: 07/16/2010)

08/18/2010 -- Case reassigned to Judge Leonard P. Stark. Please include the initials of the Judge (LPS) after the case number on all documents filed. (rpg) (Entered: 08/18/2010)

09/22/2010 -- SO ORDERED, re (1597 in 1:06-cv-00726-LPS) MOTION for Pro Hac Vice Appearance of Attorney John V. Gorman filed by LG Display Co., Ltd., LG Display America, Inc. Signed by Judge Leonard P. Stark on 9/22/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(rpg) (Entered: 09/22/2010)

11/02/2010 138 ORAL ORDER: IT IS ORDERED that counsel are to provide the Court with a joint status report on or before November 9, 2010. ORDERED by Judge Leonard P. Stark on 11/2/10. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(ntl) (Entered: 11/02/2010)

11/09/2010 139 Joint STATUS REPORT by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 11/09/2010)

12/13/2010 -- SO ORDERED, re (1630 in 1:06-cv-00726-LPS) Stipulation Regarding Participation of Litigation Counsel in Reexamination Proceedings by AU Optronics Corporation America, Au Optronics Corporation. Signed by Judge Leonard P. Stark on 12/13/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(rpg) (Entered: 12/13/2010)

12/29/2010 140 MEMORANDUM OPINION re 1508 MOTION For Limited Intervention To Obtain Copies Of Evidence - filed by Anvik Corporation. Signed by Judge Leonard P. Stark on 12/29/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(rpg) (Entered: 12/29/2010)

12/29/2010 141 ORDER granting in part and denying in part 1508 in 1:06-cv-00726-LPS MOTION to Intervene filed by Anvik Corporation re 1634 in 1:06-cv-00726-LPS and 140 in 1:07-cv-00357-LPS Memorandum Opinion by Judge Leonard P. Stark. Signed by Judge Leonard P. Stark on 12/29/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(rpg) (Entered: 12/29/2010)

01/12/2011 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument - filed by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)

01/12/2011 143 OPENING BRIEF in Support re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument (Memorandum of Law in Support of Intervenor Anvik Corporation's Motion for Reconsideration or Reargument filed by Anvik Corporation. Answering Brief/Response due date per Local Rules is 1/31/2011. (Brennecke, Sean) (Entered: 01/12/2011)

01/12/2011 144 PROPOSED ORDER Reconsideration or Reargument re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)

01/12/2011 145 STATEMENT re 143 Opening Brief in Support, 144 Proposed Order, 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument Rule 7.1.1 Statement of Movant Anvik Corporation by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)

02/07/2011 146 REPLY BRIEF re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument [Intervenor Anvik Corporation's Reply Memorandum of Law in Support of Motion for Reconsideration or Reargument] filed by Anvik Corporation. (Brennecke, Sean) (Entered: 02/07/2011)

02/14/2011 147 MEMORANDUM OPINION re Anvik's motion for reconsideration or reargument. Signed by Judge Leonard P. Stark on 2/14/11. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(ntl)

(Entered: 02/14/2011)

- 02/14/2011 148 ORDER denying (1637) Motion for Reconsideration in case 1:06-cv-00726-LPS; denying (142) Motion for Reconsideration in case 1:07-cv-00357-LPS. Signed by Judge Leonard P. Stark on 2/14/11. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(ntl) (Entered: 02/14/2011)
- 09/20/2011 149 STIPULATION of Dismissal with prejudice pursuant to Fed. R. Civ. P. 41(a) by AU Optronics Corporation America, Au Optronics Corporation, LG Display America, Inc., LG Display Co., Ltd., AU Optronics Corporation, LG Display America, Inc.. (Pascale, Karen) (Entered: 09/20/2011)
- 09/26/2011 150 SO ORDERED, re 149 Stipulation of Dismissal, ***Civil Case Terminated. Signed by Judge Leonard P. Stark on 9/26/11. (ntl) (Entered: 09/26/2011)



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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 90/009,697 | 03/16/2010 | 6689629 | 67507-008Re-exam | 5947 |

65358 7590 06/06/2012

WPAT, PC
INTELLECTUAL PROPERTY ATTORNEYS
8230 BOONE BLVD. SUITE 405
VIENNA, VA 22182

EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED: 06/06/2012

Please find below and/or attached an Office communication concerning this application or proceeding.



MAILED

JUN 06 2012

CENTRAL REEXAMINATION UNIT

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(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

SONG K. JUNG

MCKENNA LONG AND ALDRIDGE LLP

1900 K STREET, NW

WASHINGTON, DC 20006

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

| | | |
|--|----------------------------|---------------------------------------|
| Office Action in Ex Parte Reexamination | Control No. 90/009,697 | Patent Under Reexamination 6689629 |
| | Examiner TUAN H. NGUYEN | Art Unit 3992 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

- a Responsive to the communication(s) filed on 23 April 2012. b This action is made FINAL.
c A statement under 37 CFR 1.530 has not been received from the patent owner.

A shortened statutory period for response to this action is set to expire 2 month(s) from the mailing date of this letter. Failure to respond within the period for response will result in termination of the proceeding and issuance of an *ex parte* reexamination certificate in accordance with this action. 37 CFR 1.550(d). **EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.550(c)**. If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. Notice of References Cited by Examiner, PTO-892. 3. Interview Summary, PTO-474.
2. Information Disclosure Statement, PTO/SB/08. 4. _____.

Part II SUMMARY OF ACTION

- 1a. Claims 1-17 are subject to reexamination.
1b. Claims _____ are not subject to reexamination.
2. Claims 2,4,10,12 and 13 have been canceled in the present reexamination proceeding.
3. Claims _____ are patentable and/or confirmed.
4. Claims 1, 3, 5-9, 11, 14-17 are rejected.
5. Claims _____ are objected to.
6. The drawings, filed on _____ are acceptable.
7. The proposed drawing correction, filed on _____ has been (7a) approved (7b) disapproved.
8. Acknowledgment is made of the priority claim under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some* c) None of the certified copies have
 1 been received.
 2 not been received.
 3 been filed in Application No. _____.
 4 been filed in reexamination Control No. _____.
 5 been received by the International Bureau in PCT application No. _____.
* See the attached detailed Office action for a list of the certified copies not received.
9. Since the proceeding appears to be in condition for issuance of an *ex parte* reexamination certificate except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte* Quayle, 1935 C.D. 11, 453 O.G. 213.
10. Other: _____

cc: Requester (if third party requester)

DETAILED ACTION

This Office Action in response to the Patent Owner's Arguments/ Remarks filed 04/23/2012.

Claim Rejections - Relevant Statutes

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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Detailed Analysis

1/. Claims 1, 3, 5-9, 11, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang in view of the '629 APA.

Regarding claims 1, 9:

Claims 1 and 9 were amended in the pending ex parte reexamination and reads as follows:

*1. (Amended) An array substrate for display, comprising:
a layer of an insulating substrate, having an area;
a thin film transistor array formed on the insulating substrate;
a plurality of [wiring] wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
pixel electrodes, and
dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy [patters] patterns are not in contact with any of the [wiring] wirings.*

*9. (Amended) A [meted] method for forming an array substrate for display, comprising:
forming a layer of an insulating substrate, having an area;
forming a thin film transistor array and a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, the wiring in communication with at least [on] one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;*

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*forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
forming pixel electrodes, and
forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the [wiring] wirings.*

Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display and method of forming an array substrate comprising the steps of forming a layer of insulating substrate 1 or 101 of glass or quartz having an area (col. 1:35-36, col. 6:29-30);

Zhang discloses plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 1 or 101 in a matrix with TFTs and pixel electrodes 102 at the crossover points of the scan and signal lines (col. 1:34-40, 6:40-44).

Zhang discloses the wirings (i.e. scan lines 106 and signal lines 105) are connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), forming connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); forming pixel electrodes 102 (Figs. 1, 16-17); forming dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See, Zhang, Figs. 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30

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microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Zhang discloses that the wirings can comprise of a three layer film of titanium/aluminum/titanium. Zhang fails to disclose *the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof as now amended.*

The '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed wiring having upper layer selected from the group consisting of molybdenum, chromium, tantalum, titanium over lower aluminum layer as suggested by the '629 APA in Zhang since the use of a harder to be oxidized material from the upper layer would protect the aluminum from oxidation and prevent the undercut of the lower conductive material.

Regarding claims 3, 5-8, 11, 14-16:

As noted above, the '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium. Since the upper wiring material is the same material for forming the upper wiring as in the instant patent claim; therefore, it inherently does not become insoluble in an acid or alkaline etchant.

21. Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Zhang.

Regarding claim 17:

Claim 17 was amended in the pending ex parte reexamination and reads as follows:

17 (New) *An array substrate for display, comprising:*

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

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Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display comprising a layer of insulating substrate 101 of glass or quartz having an area (col. 1:35-36, 6:29-30);

Zhang discloses a thin film transistor array 112 in pixel section 102, plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 101 in a matrix with TFTs and pixel electrodes at the crossover points of the scan and signal lines (col. 1:34-40, 6:34-44).

Zhang discloses a plurality of wirings (i.e. scan lines 106 and signal lines 105) are directly connected to the TFTs: (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); pixel electrodes 102 (Figs. 1, 16-17); dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See Zhang, Figs. 1, 16, 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30 microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Response to Arguments

Patent Owner's arguments filed on 04/23/2012 have been fully considered but they are not persuasive.

Contrary to the Patent Owner's conclusion in his Remarks, page 7, next to last paragraph that since "the Office is agreed with Patentee that Zhang's invention as shown in the relevant figures does disclose the connection pads located within the sealing region (Office Action, page 8, last line, and page 9, 1st paragraph), and since the connection pads are within the sealed area, Zhang's invention as shown in the relevant figures does not disclose the dummy conductive patterns located between the connection pads and the pixel electrodes"; in fact, the examiner only "agreed with the Patent Owner's argument that pads 303a for connecting wiring 303 to pixel electrodes 102 through wiring 305 as shown in Figs. 3, 4 and text on paragraph bridging col. 9-10 are located within the sealing region 107; however, external terminals or pads which is used for connecting wiring 302,303 in regions R3, R4 to an external circuit as disclosed in col. 9:55-60 and shown in Fig. 16 are clearly outside the sealing region 107 (emphasis added)". Patent Owner tried to ignore the fact that regions R3 and R4 as shown on the right and bottom sides of drawing figure 1 having scanning line 106 and signal line 105 extend to the exterior of the sealing region 17, and figures 3, 4, 7, 8 show scanning lines 302 and signal lines 303 (correspond to the scanning line 106 and signal line 105 respectively as shown in Fig. 1) connect pixel electrodes 102 to external

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terminal or pads at side regions R3 and R4 through the sealing ring 107 (col. 5, lines 17-22, col. 6, lines 51-56, and col. 8, lines 8-18) and dummy wirings 304 formed in the sealing material 107 between the connection pads or external terminal formed outside the sealing ring 107 (as shown in Fig. 16) and the pixel electrodes 102. Note on col. 1, lines 44-46, and col. 9, lines 55-59 for teaching the formation of external terminal at the ends of those wirings in order to connect with a peripheral circuit.

In order to connecting scanning lines 302 and signal lines 303 at regions R3 and R4 to the external circuit outside the sealing region 107, connection pads or extension terminals 6 at the ends of those wirings as show in Fig. 16 must be presented. Note in Figs. 16 and 17 at right and bottom sides of the drawing with wirings extend to the outside of the sealing material 5 or 17 for connecting to the peripheral circuits are the same as wirings 106 and 105 at regions R3 and R4 shown in Fig. 1 without the connection pads 6 for simplicity.

Contrary to the Patent owner's argument on page 8, second paragraph that Zhang, Fig. 17 teaches moving the connection pads within the sealing region to accommodate connecting the peripheral drive circuits within the sealing region. Zhang discloses the moving of the peripheral drive circuits only at regions R1 and R2 of Fig. 1, Zhang does not teach moving all the peripheral circuits and connection pads into the sealing region, particularly at region R3 and R4.

Fig. 1 which is an improved from Figs. 16 and 17 with the peripheral drive circuit moved inside the sealing region 107 only at regions R1 and R2. Regions R3 and R4 are

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still the same; therefore the connection pads 6 as shown in Fig. 16 are necessary for connecting with the external circuits (col. 9, lines 55-58, col. 12, lines 30-36).

With respect to the arguments on page 8 last paragraph to page 9, the examiner does not suggest to modify Zhang's invention by moving the connection pads outside the sealing region at region R1 and R2, but just point out that the connection pads 6 are inherently present and necessary for providing connections of wirings to the external circuits outside the sealing region at right and bottom sides of Fig. 16 correspond to regions R3 and R4 in Fig. 1 with wirings 105, 106 extend through sealing region 107 without connection pads for simplicity.

In Fig. 4, Zhang discloses the additional connection pads 303a located inside sealing region to facilitate connecting end portions of wiring 303 on the pixel section 102 side to the wirings extending from the pixel section 102 does not preclude the connection pads 6 at the other ends of wirings 303 for connecting the wiring to the external circuits outside the sealing region as shown in Fig. 16. Zhang does not teach or suggest moving all connection pads 6 into the sealing region, particularly at right and bottom sides of Fig. 16. Connection pads or extension terminals 6 at the ends of those wirings as show in Fig. 16 must be presented as disclosed on col. 1, lines 44-46, and col. 9, lines 55-59.

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Summary

Claims 1, 3, 5-9, 11, 14-17 are rejected.

Claims 2, 4, 10, 12-13 were cancelled.

Conclusion

THIS ACTION IS MADE FINAL.

A shortened statutory period for response to this action is set to expire 2 months from the mailing date of this action.

Extensions of time under 37 CFR 1.136(a) do not apply in reexamination proceedings. The provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Further, in 35 U.S.C. 305 and in 37 CFR 1.550(a), it is required that reexamination proceedings "will be conducted with special dispatch within the Office."

Extensions of time in reexamination proceedings are provided for in 37 CFR 1.550(c). A request for extension of time must be filed on or before the day on which a response to this action is due, and it must be accompanied by the petition fee set forth in 37 CFR 1.17(g). The mere filing of a request will not effect any extension of time. An extension of time will be granted only for sufficient cause, and for a reasonable time specified.

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The filing of a timely first response to this final rejection will be construed as including a request to extend the shortened statutory period for an additional month, which will be granted even if previous extensions have been granted. In no event however, will the statutory period for response expire later than SIX MONTHS from the mailing date of the final action. See MPEP § 2265.

Duty to Disclose

The patent owner is reminded of the continuing responsibility under 37 CFR 1.565(a) to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving Patent No. 6,689,629 throughout the course of this reexamination proceeding. The third party requester is also reminded of the ability to similarly apprise the Office of any such activity or proceeding throughout the course of this reexamination proceeding. See MPEP § § 2207, 2282 and 2286.

All correspondence relating to this *ex parte* reexamination proceeding should be directed:

By Mail to: Mail Stop *Ex Parte* Reexam
Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Art Unit: 3992

By FAX to: (571) 273-9900

Central Reexamination Unit

By hand: Customer Service Window

Randolph Building

401 Dulany Street

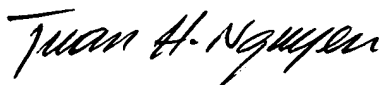
Alexandria, VA 22314

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Any inquiry concerning this communication should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

Signed:

Conferees:




Tuan H. Nguyen
Primary Examiner
Central Reexamination Unit



Sue Lao



Minh Nguyen


| | | |
|--|--|---|
| Search Notes  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

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| SEARCHED | | | |
| Class | Subclass | Date | Examiner |
| None | | 02/1/125 | TN |
| None | | 6/4/12 | TN |

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| SEARCH NOTES | | |
| Search Notes | Date | Examiner |
| Reviewed of patented file's prosecution history | 4/16/10 | TN |

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| INTERFERENCE SEARCH | | | |
| Class | Subclass | Date | Examiner |
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| Index of Claims  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

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| - | Cancelled |
| ÷ | Restricted |

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| N | Non-Elected |
| I | Interference |

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| A | Appeal |
| O | Objected |

Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

| CLAIM | | DATE | | | | | | | |
|-------|----------|------------|--|------------|--|--|--|--|--|
| Final | Original | 02/28/2012 | | 06/04/2012 | | | | | |
| | 1 | ✓ | | ✓ | | | | | |
| | 2 | - | | - | | | | | |
| | 3 | ✓ | | ✓ | | | | | |
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| | 17 | ✓ | | ✓ | | | | | |

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|---|--|---|
| Reexamination  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Certificate Date | Certificate Number |

Requester Correspondence Address: **Patent Owner** **Third Party**

SONG K. JUNG
 MCKENNA LONG AND ALDRIDGE LLP
 1900 K STREET, NW
 WASHINGTON, DC 20006

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| LITIGATION REVIEW <input checked="" type="checkbox"/> | TN (examiner initials) | 06/04/2012 (date) |
| Case Name | | Director Initials |
| Open 1:07cv357 Au Optronics Corp. v. Lg. Philips Lcd Co Ltd et al. | | <i>M</i> <i>Sw</i> <i>EY</i> |
| Closed 1:07cv137 Au Optronics Corp. v. Lg. Philips Lcd Co. Lt | | ↓ |
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: **90/009,697**
Patent No. **6,689,629**
Filing Date: **3/16/2010**
Art Unit: **3992**
Examiner: **Tuan H. Nguyen**
Attorney Docket No.: **67507-008Re-exam**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**RESPONSE TO FINAL OFFICE ACTION
REQUEST FOR RECONSIDERATION**

Sir:

This paper responds to the Final Office Action dated June 6, 2012. Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

What is claimed is:

1. (Amended) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of [wiring] wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy [patters] patterns are not in contact with any of the [wiring] wirings.

2. (Cancelled)

3. (Amended) The array substrate for display according to claim [2] 1 wherein the lower

layer wiring material is selected from the group consisting of aluminum and aluminum alloys.

4. (Cancelled)

5. (Original) The array substrate for display according to claim 3 wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof.

6. (Original) The array substrate for display according to claim 5 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

7. (Amended) The array substrate for display according to claim [4] 1 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

8. (Original) The array substrate for display according to claim 5 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

9. (Amended) A [meted] method for forming an array substrate for display, comprising:

forming a layer of an insulating substrate, having an area;

forming a thin film transistor array and a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, the wiring in communication with at least [on] one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

forming pixel electrodes, and

forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the [wiring] wirings.

10. (Cancelled)

11. (Amended) The method for forming an array substrate for display according to claim [10] 9 wherein the lower layer wiring materials is selected from the group consisting of aluminum and aluminum alloys.

12. (Cancelled)

13. (Cancelled)

14. (Amended) The method for forming an array substrate for display according to claim [13] 9 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

15. (Amended) The method for forming an array substrate for display according to claim [12] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

16. (Amended) The method for forming an array substrate for display according to

claim [13] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

17 (New) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

REMARKS/ARGUMENTS

Claim Status Summary

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA.

35 U.S.C. §103(a) Rejection over Zhang and '629 APA

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA. Patentee respectfully disagrees for the reasons discussed below.

The 35 U.S.C. §103(a) states the following:

“(a) A patent may not be obtained though the invention is not identically disclosed or described as set for the in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.”

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Patentee respectfully submits that neither Zhang nor APA, combined or individually, discloses or teaches every recited limitation in the claim 1. The claim 1 recites the following limitations:

“An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least *about 30% of the area of the insulating substrate*, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.”

Patentee respectfully submits that the cited references, combined or individually, do not disclose the recited limitation of a *single substrate* including the structure of “dummy patterns *between* the connection pads and the pixel electrodes”, “dummy patterns comprising at least about *30%* of the area of the insulating substrate”, and “both dummy patterns and wirings located on the *same* layer“.

Patentee thanks the Office for the detailed review over the reasons stated in the Response filed on 4/23/2012. As presented in the Response as filed on 4/23/2012, Zhang does not disclose or teach the recited combined structural limitations as stated in claim 1. In particular, Zhang’s invention does not disclose or teach the recited location of the dummy conductive patterns between the connection pads and the pixel electrodes. Zhang’s invention, as shown in the relevant Figs. 1, 3, and 4, discloses that both the connecting ends 303a and electrodes 102 are located within the confined area surrounded by the sealing region 107. Since Zhang’s dummy patterns 304 are

positioned at the sealing region 107, and both Zhang's connection pads and pixel electrodes are positioned within the confined area surrounded by the sealing region, Zhang's invention as illustrated in Figs.3 and 4 does not disclose the dummy pattern located between the connecting ends/connection pads and the pixel electrodes.

The Office seems to recognize that Zhang's invention as illustrated in Figs. 3 and 4 does not disclose or teach the recited location for the dummy patterns, and the Office seems to attempt curing Zhang's invention's deficiency by Zhang's own APA Fig. 16. The Office alleged that the external terminals or pads which is used for connecting wirings 302, 303 in regions R3 and R4 to an external circuit as disclosed in the col. 9:55-60 and shown in Fig. 16 are clearly outside the sealing region 107 (Office Action, page 8, 2nd paragraph, underlined section). Patentee respectfully disagrees that Zhang's APA Fig. 16 cures Zhang's deficiency.

Although the cited section column 9:55-60 in Zhang provides that wirings 302 and 303 are meant for connection with an external circuit or an external terminal, the cited section does not disclose or teach or need any connection pads outside the area surrounded by the sealing region 107 on the *same* substrate 101. The claim 1 recites *an array substrate including the wirings, dummy patterns, and the connection pad*. Patentee respectfully submits that any reallocation of Zhang's existing connecting ends/connection pads to outside the area surrounded by the sealing region, or adding additional external connection pads *on the same substrate* outside the area surrounded by the sealing region will be teaching away from Zhang, speculated, and hindsight.

Zhang discloses the APA Fig. 16 with the *drive circuit* connecting ends/connection pads on the *same* substrate and located at outside of the area surrounded by the sealing region for connecting to the scan drive circuit and data drive circuit (Zhang, column 1, lines 32-52). Zhang discloses that the APA Fig. 16 is prone to the problem of moisture. Zhang then discloses the second APA Fig. 17 as the improvement over the APA Fig. 16 by relocating the drive circuits into the area

surrounded by the sealing region (Zhang, column 1, lines 54-67, and column 2, lines 1-18), which indeed moves the connecting ends/connection pads for connecting to the drive circuits into the area surrounded by the sealing region as well. However, Zhang discloses that since a one-side drive system is generally adapted without any provision of a redundant circuit, the Fig. 17 usually is wired asymmetrically. Thus, the APA Fig. 17 is prone to a bonding problem due to the uneven pressure caused by the asymmetrical wiring arrangement. Zhang then discloses the invention with the dummy pattern 304 to provide the support for a uniform sealing pressure (Zhang, column 2, lines 53-61, and column 4, lines 21-35). While both Zhang's APA Fig. 17 and Figs. 1 disclose positioning the drive circuits within the area surrounded by the sealing region, both Zhang's APA Fig. 17 and Fig. 1 also depict an external terminals 19/108 and wirings 15/16/105/106 for connecting to other external circuits *not on the same substrate* (as the figures depict wirings pointing to outside of the substrate; and column 5, lines 19-20). Patentee respectfully submits that Zhang's APA Fig. 16, when viewed as a whole, does not cure Zhang's deficiency.

When viewing Zhang's specification as a whole, Zhang's APA Fig. 16 discloses locating the drive circuit connecting ends/connection pads outside of the confined area surrounded by the sealing region; it is the fundamental purpose of Zhang's APA Fig. 17 to relocate these drive circuit connecting ends into the confined area surrounded by the sealing region, and Zhang's own invention further enhances the APA Fig. 17 after locating these connecting ends/connection pads into the confined area. The Office seemed to conclude that since Zhang's Fig. 16 teaches positioning the connecting ends/connection pad outside the confined area surrounded by the sealing region, it would be obvious to place additional connection pads or to relocate Zhang's existing pads to outside the confined area surrounded by the sealing region. As viewing Zhang's specification as a whole, since it is the fundamental purpose of Zhang's APA Fig. 17 and Zhang's own invention to relocate APA Fig. 16's connection pads into the confined

area, any attempt to relocate Zhang's existing connection pads back to outside this confined area would be a clear teaching away from Zhang.

Arguendo, even if the Office only considers the APA Fig. 16 as a mere teaching on locating any connection pad, for either drive circuits or external circuits, at outside of the confined area, this limited teaching still cannot be properly applied onto Zhang due to the very nature of the Zhang's wires 303 and 304 without proper motivation. Patentee respectfully submits that Zhang's Fig. 16 only discloses connecting ends/connection pads *on the same substrate*; and the connection ends/connection pads in Zhang's Fig. 16 do not connect to any external circuits as illustrated in Zhang's APA Fig. 17 and 1. Furthermore, Zhang's Fig. 1 has disclosed a connection pad 303a, any additional external connection pads *on the same substrate* outside the confined area will incur additional manufacturing cost and manufacturing complication. Since it is not a must to equip new connecting ends/connection pads, or to relocate exiting connecting ends/connection pads to outside the confined area surrounded by the sealing region, any alleged external connection pads by the Office must be properly supported by the doctrine of the T.S.M. under 35 U.S.C. §103(a); and Patentee respectfully submits that the rejection on record does not meet this prima facial requirement.

Patentee further respectfully submits that since the addition of the external connection pads are not a must as alleged taught in Zhang Fig. 16 as discussed above, the external connection pads should not be considered as an inherent; the MPEP 2112 has provided that the fact that a certain result or characteristic may occur or be present in the prior art is not sufficient to establish the inherency of that result or characteristic. *In re Rijckaert*, 9 F.3d 1531, 1534, 28 USPQ2d 1955, 1957 (Fed. Cir. 1993). It was also held that "In relying upon the theory of inherency, the examiner must provide a basis in fact and/or technical reasoning to reasonably support the determination that the allegedly inherent characteristic necessarily flows from the teachings of the applied prior art." *Ex parte Levy*, 17 USPQ2d 1461, 1464 (Bd. Pat. App. & Inter. 1990).

Patentee further submits that the cited references, combined or individually, do not disclose the recited limitation of “dummy patterns comprising at least about **30% of the area** of the insulating substrate”. Arguendo, even assuming references do disclose or teach the connecting ends/connection pads as alleged by the Office, the references on record still do not disclose every recited limitation. The Office alleged that Zhang discloses the recited at least 30% of the area since Zhang discloses the distance between wiring is 50 microns and the dummy wiring is 30 microns with 10 micros between the wiring and the dummy wiring (Office Action, page 4, last 2 lines, page 5, first 2 lines). Patentee respectfully disagrees such disclosure is sufficient to disclose the recited limitation. While Zhang does disclose the relevant width of the components, the disclosure is not sufficient to conclude or to support the rejection over the limitation of at least about **30% of the area**. The limitation directs towards that the dummy patterns, situated between the connection pads and pixel electrodes, occupy at least 30% of the area. Zhang’s disclosure merely provides the relevant width for each component; Patentee respectfully submits that the mere width for each component without the length is not sufficient to ascertain in calculating the occupied area. In addition, as shown in Zhang’s APA Fig. 17 and Fig. 1, the wires 15/16/105/106 are extended to the very edge of the substrate 101; the exact location of Office’s alleged connecting ends/connection pads also cannot be ascertained on wires 15/16/105/106. Since the exactly locations of the alleged connection pads cannot be ascertained, the area as for the base in calculating the recited at least 30% ratio also cannot be ascertained. Since Zhang does not provide sufficient information in calculating the occupied area, and there is also no proper base for calculating the respective ratio, Patentee respectfully submits that Zhang does not discloses the recited limitation of “dummy patterns comprising at least about **30% of the area** of the insulating substrate” as alleged by the Office.

Patentee further submits that the cited references, combined or individually, do not disclose the recited limitation of both dummy patterns and wiring are on the **same**

layer. The claim explicitly recites that the wirings are located on the insulating substrate and the dummy patterns are occupying the area of insulating substrate. Zhang's Fig. 6 explicitly shows that the dummy pattern 304 is formed on a second layer while the wiring 303 is formed on a first layer; Zhang further discloses that both wire 303 and electrode are formed on the same first layer (column 10, lines 39-41 and 45). Since Zhang explicitly discloses that the dummy pattern 304 and wiring 303 are on two separate layers, Patentee respectfully submits that Zhang does not disclose the structural limitations of both dummy patterns and wiring on the same layer.

Hence, Patentee respectfully submits that Zhang does not disclose or teach that the recited limitation of "dummy patterns *between* the connection pads and the pixel electrodes", "dummy patterns comprising at least about **30%** of the area of the insulating substrate", and "both dummy patterns and wiring are on the *same layer*" as discussed above; and patentee further respectfully submits that the secondary reference does not cure Zhang's deficiency. Thus, for the reasons discussed above, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 1 as required under 35 USC 103(a); hence, Patentee respectfully requests the Office to withdraw the rejection over claim 1 accordingly, and to issue favorable re-consideration.

Claims 3, 5-9, 11, and 14-17

Independent claims 9 and 17 recites the similar limitations as the claim 1 discussed above. Claims 3 and 5-8 depend on claim 1, thus they incorporate every recited limitation in claim 1. Claims 11 and 14-16 depend on claim 9, thus they incorporate every recited limitation in claim 9. For the reasons discussed above for claim 1, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 3, 5-9, 11, and 14-17 as required under 35 USC 103(a); thus, Patentee respectfully requests the Office to withdraw the rejection over the remaining claims 3, 5-9, 11, and 14-17, and to issue favorable re-consideration.

Conclusion

Claims 1, 3, 5-9, 11, and 14-17 are pending in this proceeding. In view of the reasons stated above, Patentee respectfully submits that the independent claims patentably define the present invention over the citations of record, and Patentee respectfully requests a favorable reconsideration and issuing allowance accordingly. Further, the dependent claims should also be allowable for the same reasons as their respective base claims and further due to the additional features that they recite. Separate and individual consideration of the dependent claims is respectfully requested. Examiner is invited to contact the attorney on record to expedite the prosecution in pursuance of allowance.

Respectfully submitted,
WPAT, P.C.

By____/Justin I. King/_____
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Registration No. 50,464

August 6, 2012
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Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 13423342 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 06-AUG-2012 |
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| Application Type: | Reexam (Third Party) |

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| Multipart Description/PDF files in .zip description | | | |
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| Amendment After Final | | 1 | 1 |
| Claims | | 2 | 5 |
| Applicant Arguments/Remarks Made in an Amendment | | 6 | 13 |

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing **RESPONSE TO FINAL OFFICE ACTION
REQUEST FOR RECONSIDERATION** was served upon the following:

Song K. Jung
McKenna Long & Aldridge LLP
1900 K St., N.W.
Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

August 6, 2012

Date

/Justin King/

Justin King, Reg. No. 50,464



UNITED STATES PATENT AND TRADEMARK OFFICE

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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 90/009,697 | 03/16/2010 | 6689629 | 67507-008Re-exam | 5947 |

65358 7590 08/28/2012

WPAT, PC
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EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED: 08/28/2012

Please find below and/or attached an Office communication concerning this application or proceeding.



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AUG 28 2012

CENTRAL REEXAMINATION UNIT

SONG K. JUNG

MCKENNA LONG AND ALDRIDGE LLP

1900 K STREET, NW

WASHINGTON, DC 20006

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

| | | |
|--|----------------------------|---------------------------------------|
| Ex Parte Reexamination Advisory Action Before the Filing of an Appeal Brief | Control No. 90/009,697 | Patent Under Reexamination 6689629 |
| | Examiner TUAN H. NGUYEN | Art Unit 3992 |

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

THE PROPOSED RESPONSE FILED 06 August 2012 FAILS TO OVERCOME ALL OF THE REJECTIONS IN THE FINAL REJECTION MAILED 06 June 2012.

1. Unless a timely appeal is filed, or other appropriate action by the patent owner is taken to overcome all of the outstanding rejection(s), this prosecution of the present *ex parte* reexamination proceeding WILL BE TERMINATED and a Notice of Intent to Issue *Ex Parte* Reexamination Certificate will be mailed in due course. Any finally rejected claims, or claims objected to, will be CANCELLED.
- THE PERIOD FOR RESPONSE IS EXTENDED TO RUN 3 MONTHS FROM THE MAILING DATE OF THE FINAL REJECTION. Extensions of time are governed by 37 CFR 1.550(c).

NOTICE OF APPEAL

2. An Appeal Brief is due two months from the date of the Notice of Appeal filed on _____ to avoid dismissal of the appeal. See 37 CFR 41.37(a). Extensions of time are governed by 37 CFR 1.550(c). See 37 CFR 41.37(e).

AMENDMENTS

3. The proposed amendment(s) filed after a final action, but prior to the date of filing a brief, will not be entered because:
- (a) They raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) They raise the issue of new matter (see NOTE below);
 - (c) They are not deemed to place the proceeding in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) They present additional claims without canceling a corresponding number of finally rejected claims.
- NOTE: (See 37 CFR 1.116 and 41.33(a)).
4. Patent owner's proposed response filed _____ has overcome the following rejection(s): _____
5. The proposed new or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
6. For purposes of appeal, the proposed amendment(s) a) will not be entered, or b) will be entered and an explanation of how the new or amended claim(s) would be rejected is provided below or appended.
- The status of the claim(s) is (or will be) as follows:
 Claim(s) patentable and/or confirmed: _____
 Claim(s) objected to: _____
 Claim(s) rejected: _____
 Claim(s) not subject to reexamination: _____

AFFIDAVIT OR OTHER EVIDENCE

7. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because patent owner failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
8. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence fails to overcome all rejections under appeal and/or appellant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
9. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

10. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
11. Note the attached Information Disclosure Statement(s), PTO/SB/08, Paper No(s) _____.
12. Other: _____.

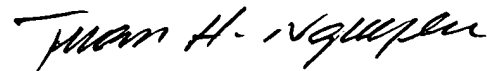
cc: Requester (if third party requester)

Continuation of 10. Patent Owner, for the first time after Final rejection, argues about "a single substrate", "dummy patterns comprising at least about 30% of the area of the insulating substrate", and "both dummy patterns and wirings located on the same layer" in his Remarks, pages 7-12.

- With respect to "a single (or the same) substrate", and "both dummy patterns and wiring are on the same layer", nowhere in the instant patent claims requires the connection pads formed on the same substrate, and both dummy patterns and wiring formed on the same layer as alleged.

- With respect to the argument of "dummy patterns comprising at least about 30% of the area of the insulating substrate", the dummy patterns formed all over the regions R1-R4 surrounding the display section 102 as shown by Zhang in Figs. 1, 4 would consider at least about 30% of the area of the substrate; moreover, the claim recites "a layer of an insulating substrate, having an area" does not necessarily mean the recited "area" occupied the whole substrate's surface. The instant specification does not define the claimed area, and on col. 5, line 66 to col. 6, line 1 discloses "the dummy conductive patterns 29 can be 30% or more on the area of a specified surface", this clearly confirms that the "area" as claimed does not cover the whole substrate surface but only a specified portion of the surface, and Zhang's dummy patterns could be considered as comprising at least 30% of any specified area of the insulating substrate as claimed.

-With respect to "dummy patterns situated between the connection pads and the pixel electrodes", it is believed to be answered by the Examiner in the Final rejection, regardless of whether the pads are formed on the same substrate or not since such limitation is not recited in the instant patent claims (in fact, Zhang, Fig. 16, in which Fig. 1 is improved from at regions R1-R2, show pads 6 at regions R3-R4 formed on the same substrate).



Tuan H. Nguyen
Primary Examiner

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

Appl No.: 90/009,697
Patent No. 6,689,629
Filing Date: 3/16/2010
Art Unit: 3992
Examiner: Tuan H. Nguyen
Attorney Docket No.: 67507-008Re-exam

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO FINAL OFFICE ACTION
REQUEST FOR RECONSIDERATION

Sir:

This paper responds to the Final Office Action dated June 6, 2012. Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

*Powertenter
TN 8/22/12*

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| | | | |
|--|-------------------------|--|----------------------------|
| NOTICE OF APPEAL FROM THE EXAMINER TO THE BOARD OF PATENT APPEALS AND INTERFERENCES | | Docket Number (Optional) 67507-008Re-exam | |
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on <u>09/06/2012</u> Signature <u>/Justin King/</u> Typed or printed name <u>Justin King</u> | | In re Application of Takatoshi Tsujimura | |
| | | Application Number 90/009,697 | Filed 03-16-2010 |
| | | For <small>ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLA</small> | |
| | Art Unit 3992 | Examiner NGUYEN, TUAN H | |

Applicant hereby **appeals** to the Board of Patent Appeals and Interferences from the last decision of the examiner.The fee for this Notice of Appeal is (37 CFR 41.20(b)(1)) \$ 620.00

- Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by half, and the resulting fee is: \$ _____
- A check in the amount of the fee is enclosed.
- Payment by credit card. Form PTO-2038 is attached.
- The Director has already been authorized to charge fees in this application to a Deposit Account.
- The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. _____.
- A petition for an extension of time under 37 CFR 1.136(a) (PTO/SB/22) is enclosed.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

- applicant/inventor. /Justin King/
Signature
- assignee of record of the entire interest.
See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed.
(Form PTO/SB/96) Justin King
Typed or printed name
- attorney or agent of record. 50464
Registration number 703-639-0151
Telephone number
- attorney or agent acting under 37 CFR 1.34.
Registration number if acting under 37 CFR 1.34. _____ 09/06/2012
Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

- *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 41.31. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

| | |
|---|---|
| Application Number: | 90009697 |
| Filing Date: | 16-Mar-2010 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Filer: | Anthony King/Justin King |
| Attorney Docket Number: | 67507-008Re-exam |

Filed as Large Entity

ex parte reexam Filing Fees

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|---|----------|----------|--------|----------------------|
| Basic Filing: | | | | |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| Notice of appeal | 1401 | 1 | 620 | 620 |

Post-Allowance-and-Post-Issuance:

Extension of Time:
Page 1621 of 1919

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------------|----------|----------|--------|----------------------|
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 620 |

Electronic Acknowledgement Receipt

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|---|---|
| EFS ID: | 13670106 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 06-SEP-2012 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 11:07:55 |
| Application Type: | Reexam (Third Party) |

Payment information:

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| Submitted with Payment | yes |
| Payment Type | Credit Card |
| Payment was successfully received in RAM | \$620 |
| RAM confirmation Number | 12277 |
| Deposit Account | |
| Authorized User | |

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------|----------------------------------|------------------|------------------|
| Page 1 of 1919 | | | | | |

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|---|------------------------|----------------|---|----|---|
| 1 | Notice of Appeal Filed | sb0031_008.pdf | 245140 e6b7b266c6fd274d8a654447cd5e92fb7 a1da5 | no | 2 |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30425 a39cf88b5ae595f4cc6ec4d66aa6626a6b31 a2fd | no | 2 |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 275565 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing NOTICE OF APPEAL was served upon the following:

Song K. Jung
McKenna Long & Aldridge LLP
1900 K St., N.W.
Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

September 6, 2012

/Justin King/

Date

Justin King, Reg. No. 50,464

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 13670139 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 06-SEP-2012 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 11:10:23 |
| Application Type: | Reexam (Third Party) |

Payment information:

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|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|---|---|------------------|------------------|
| 1 | Reexam Certificate of Service | certificate_of_service_NoticeA ppeal.pdf | 3746 <small>a9b54d2df9aaddc179b257039569f2dfe778f449</small> | no | 1 |

Warnings:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: **90/009,697**
Patent No. **6,689,629**
Filing Date: **3/16/2010**
Art Unit: **3992**
Examiner: **Tuan H. Nguyen**
Attorney Docket No.: **67507-008Re-exam**

TRANSMITTAL LETTER

Sir:

The applicant hereby submits Notice of Appeal in response to Final Rejection issued on June 6, 2012. In Advisory Action issued on August 28, 2012, Office stated the period for response is extended to run 3 months form the mailing date of the Final Rejection. Applicant has filed the Notice of Appeal along with the associated fee on September 6, 2012. It is believed that no extension is needed for filing this Notice of Appeal. However, if there is any extension fee or other related fee is required, the Office is authorized to charge any necessary fee to Deposit Account No. 50-5064.

Respectfully submitted,

By___/Justin I. King/___
Justin I. King
Registration No. 50,464

September 6, 2012
WPAT, P.C.
Intellectual Property Attorneys
8230 Boone Blvd. Suite 405
Vienna, VA 22182
Telephone (703) 639-0151

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing TRANSMITTAL LETTER was served upon the following:

Song K. Jung

McKenna Long & Aldridge LLP

1900 K St., N.W.

Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

September 6, 2012

/Justin King/

Date

Justin King, Reg. No. 50,464

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 13674219 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 06-SEP-2012 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 15:06:04 |
| Application Type: | Reexam (Third Party) |

Payment information:

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|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------------------|---|------------------|------------------|
| 1 | Transmittal Letter | TransmittalLetter.pdf | 4427 <small>a1c79e3b39d06450c2c6054912e9902e2509febb</small> | no | 1 |

Warnings:

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|---|-------------------------------|--|---|----|---|
| 2 | Reexam Certificate of Service | certificate_of_service_TransmittalLetter.pdf | 3765 bf079d859e1938827c69eaa3ddfcafbfc6c27b0 | no | 1 |
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Warnings:

Information:

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: **90/009,697**
Patent No. **6,689,629**
Filing Date: **3/16/2010**
Art Unit: **3992**
Examiner: **Tuan H. Nguyen**
Attorney Docket No.: **67507-008Re-exam**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**RESPONSE TO FINAL OFFICE ACTION
REQUEST FOR RECONSIDERATION**

Sir:

This paper responds to the Final Office Action dated June 6, 2012 and the Advisory Action dated August 28, 2012. Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

What is claimed is:

1. (Twice Amended) An array substrate for display, comprising:

[a layer of] an insulating substrate[, having an area];

a thin film transistor array [formed] on the insulating substrate;

a plurality of [wiring] wirings [arranged] on the insulating substrate, each wiring having a first end, [the] each wiring in communication with at least one transistor [of the transistors] in the thin film transistor array, and at least one of the wirings comprising at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

a plurality of connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

a plurality of pixel electrodes[,]; and

a plurality of dummy conductive patterns on the insulating substrate, wherein the plurality of dummy conductive patterns [comprising] comprises at least about 30% of [the] an area of the insulating substrate[, the dummy conductive patterns situated] between the connection pads and the pixel electrodes, [such that] and the dummy conductive patterns [patters] are not in contact with any of the [wiring] wirings.

2. (Cancelled)

3. (Amended) The array substrate for display according to claim [2] 1 wherein the lower layer wiring material is selected from the group consisting of aluminum and aluminum alloys.

4. (Cancelled)

5. (Original) The array substrate for display according to claim 3 wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof.

6. (Original) The array substrate for display according to claim 5 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

7. (Amended) The array substrate for display according to claim [4] 1 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

8. (Original) The array substrate for display according to claim 5 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

9. (Twice Amended) A [meted] method for forming an array substrate for display, comprising:

forming a layer of an insulating substrate[, having an area];

forming a thin film transistor array on the insulating substrate;

forming a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, [the] each wiring in communication with at least [on] one transistor

[of the transistors] in the thin film transistor array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

forming a plurality of connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

forming a plurality of pixel electrodes[,]; and

forming a plurality of dummy conductive patterns on the insulating substrate, wherein the plurality of dummy conductive patterns [comprising] comprises at least about 30% of [the] an area of the insulating substrate[, the dummy patterns situated] between the connection pads and the pixel electrodes, [such that] and the dummy [patters] conductive patterns are not in contact with any of the [wiring] wirings.

10. (Cancelled)

11. (Amended) The method for forming an array substrate for display according to claim [10] 9 wherein the lower layer wiring materials is selected from the group consisting of aluminum and aluminum alloys.

12. (Cancelled)

13. (Cancelled)

14. (Amended) The method for forming an array substrate for display according to claim [13] 9 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

15. (Amended) The method for forming an array substrate for display according to claim [12] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

16. (Amended) The method for forming an array substrate for display according to claim [13] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

17 (New) An array substrate for display, comprising:

an insulating substrate;

an array of thin film transistors on the insulating substrate;

a plurality of wirings on the insulating substrate, each wiring having a first end, and each wiring directly connecting with at least one thin film transistor in the array;

a plurality of connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

a plurality of pixel electrodes; and

a plurality of dummy conductive patterns on the insulating substrate, wherein the plurality of dummy conductive patterns comprises at least about 30% of an area of the insulating substrate between the connection pads and the pixel electrodes.

REMARKS/ARGUMENTS

Claim Status Summary

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA.

35 U.S.C. §103(a) Rejection over Zhang and '629 APA

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA. Patentee respectfully disagrees for the reasons discussed below.

The 35 U.S.C. §103(a) states the following:

“(a) A patent may not be obtained though the invention is not identically disclosed or described as set for the in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.”

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Patentee respectfully submits that neither Zhang nor APA, combined or individually, discloses or teaches every recited limitation in the claim 1. The claim 1 recites the following limitations:

“An array substrate for display, comprising:

- an insulating substrate;
- a thin film transistor array on the insulating substrate;
- a plurality of wirings on the insulating substrate, each wiring having a first end, each wiring in communication with at least one transistor in the thin film transistor array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;*
- a plurality of connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
- a plurality of pixel electrodes; and
- a plurality of dummy conductive patterns on the insulating substrate, wherein the plurality of dummy conductive patterns comprises at least about 30% of an area of the insulating substrate between the connection pads and the pixel electrodes, and the dummy conductive patterns are not in contact with any of the wirings.”*

Patentee respectfully submits that the cited references, combined or individually, do not disclose the recited limitation of “dummy conductive patterns comprises at least about **30%** of an area of the insulating substrate between the connection pads and the pixel electrodes”. Patentee further respectfully submits that the cited references, combined or individually, do not disclose the recited limitation of both dummy patterns and wirings located on the *same* insulating substrate.

Patentee thanks the Office for the detailed review over the reasons stated in the Response filed on 4/23/2012 and 7/23/2012.

The Cited References Do Not Disclose or Teach the Recited 30% of an Area

Patentee submits that the cited references, combined or individually, do not disclose the recited limitation of “dummy conductive patterns comprise at least about **30% of an area** of the insulating substrate *between the connection pads and the pixel*

electrodes”. The Office alleged that Zhang discloses the recited at least 30% of the area since Zhang discloses the distance between wiring is 50 microns and the dummy wiring is 30 microns with 10 micros between the wiring and the dummy wiring (Office Action, page 4, last 2 lines, page 5, first 2 lines). Patentee respectfully disagrees such disclosure is sufficient to disclose the recited limitation. While Zhang does disclose the relevant width of the components, the disclosure is not sufficient to conclude or to support the rejection over the limitation of at least about **30% of the area**. The limitation directs towards that the dummy patterns, situated between the connection pads and pixel electrodes, occupy at least 30% of the area. Zhang’s disclosure merely provides the relevant width for each component; Patentee respectfully submits that the mere width for each component without the length is not sufficient to ascertain in calculating the occupied area. In addition, as shown in Zhang’s APA Fig. 17 and Fig. 1, the wires 15/16/105/106 are extended to the very edge of the substrate 101; the exact location of Office’s alleged connecting ends/connection pads cannot be ascertained on wires 15/16/105/106. Since the exactly locations of the alleged connection pads cannot be ascertained, the area as for the base in calculating the recited at least 30% ratio also cannot be ascertained. Since Zhang does not provide sufficient information in calculating the area occupied by Zhang’s dummy pattern, and there is also no proper base for calculating the total area can be occupied by the Zhang’s dummy pattern, Zhang is disclosure is insufficient to calculate the recited ratio.

Hence, Patentee respectfully submits that Zhang does not disclose the recited limitation of “dummy conductive patterns comprise at least about **30% of an area** of the insulating substrate” as alleged by the Office.

The Cited References Do Not Disclose or Teach Both Dummy Conductive Patterns and Wirings Are on the Same Layer

Patentee further submits that the cited references, combined or individually, do not disclose the recited limitation of both dummy conductive patterns and wiring are on

the *same layer*. The claim explicitly recites that the wirings are located on the insulating substrate, and the dummy patterns are also on the insulating substrate and occupying a defined area of the insulating substrate. Zhang's Fig. 6 explicitly shows that the dummy pattern 304 is formed on a second layer while the wiring 303 is formed on a first layer; Zhang further discloses that both wire 303 and electrode are formed on the same first layer (column 10, lines 39-41 and 45). Since Zhang explicitly discloses that the dummy pattern 304 and wiring 303 are on two separate layers, Patentee respectfully submits that Zhang does not disclose the structural limitations of both dummy patterns and wiring on the same layer.

Hence, Patentee respectfully submits that Zhang does not disclose or teach that the recited limitation of "the plurality of dummy conductive patterns comprises at least about 30% of an area of the insulating substrate *between* the connection pads and the pixel electrodes", and both dummy conductive patterns and wiring are on the *same layer* as discussed above; and patentee further respectfully submits that the secondary reference does not cure Zhang's deficiency. Thus, for the reasons discussed above, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 1 as required under 35 USC 103(a); hence, Patentee respectfully requests the Office to withdraw the rejection over claim 1 accordingly, and to issue favorable re-consideration.

Claims 3, 5-9, 11, and 14-17

Independent claims 9 and 17 recites the similar limitations as the claim 1 discussed above. Claims 3 and 5-8 depend on claim 1, thus they incorporate every recited limitation in claim 1. Claims 11 and 14-16 depend on claim 9, thus they incorporate every recited limitation in claim 9. For the reasons discussed above for claim 1, Patentee respectfully submits that the cited references do not disclose every recited limitation in the claim 3, 5-9, 11, and 14-17 as required under 35 USC 103(a); thus, Patentee respectfully requests the Office to withdraw the rejection over the remaining claims 3, 5-9, 11, and 14-17, and to issue favorable re-consideration.

Conclusion

Claims 1, 3, 5-9, 11, and 14-17 are pending in this proceeding. In view of the reasons stated above, Patentee respectfully submits that the independent claims patentably define the present invention over the citations of record, and Patentee respectfully requests a favorable reconsideration and issuing allowance accordingly. Further, the dependent claims should also be allowable for the same reasons as their respective base claims and further due to the additional features that they recite. Separate and individual consideration of the dependent claims is respectfully requested. Examiner is invited to contact the attorney on record to expedite the prosecution in pursuance of allowance.

Respectfully submitted,
WPAT, P.C.

By____/Justin I. King/_____
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September 19, 2012
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Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 13785051 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 19-SEP-2012 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 14:35:48 |
| Application Type: | Reexam (Third Party) |

Payment information:

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|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|--|---|------------------|------------------|
| 1 | Reexam Certificate of Service | certificate_of_service_AfterFinalOAR.pdf | 3853 <small>b712dc08b12085ae793a3a226f08d78725f9f459</small> | no | 1 |

Warnings:

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| 2 | | AfterFinalV6.pdf | 38726 | yes | 10 |
| f405450626f6a0e191110b2e456f8766d8992cbe | | | | | |
| Multipart Description/PDF files in .zip description | | | | | |
| Document Description | | | Start | End | |
| Amendment After Final | | | 1 | 1 | |
| Claims | | | 2 | 5 | |
| Applicant Arguments/Remarks Made in an Amendment | | | 6 | 10 | |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 42579 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing RESPONSE TO FINAL OFFICE ACTION
REQUEST FOR RECONSIDERATION was served upon the following:

Song K. Jung
McKenna Long & Aldridge LLP
1900 K St., N.W.
Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

September 19, 2012

Date

/Justin King/

Justin King, Reg. No. 50,464

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: 90/009,697
Patent No.: 6,689,629
Art Unit: 3992
Examiner: NGUYEN, TUAN H
Attorney Docket No.: 67507-008Re-Exam

Commissioner for Patents
Mail Stop Missing Parts
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION FOR EXTENSION UNDER 37 CFR 1.956

Sir:

This petition is to request extending the time of one-month to response the Final Office Action dated on June 6, 2012. A Request for Reconsideration was filed on September 19, 2012 after the Notice of Appeal filed on September 6, 2012.

A telephone inquiry was conducted with the Examiner Nguyen on November 5, 2012 in regard the decision on the Request for Reconsideration filed on September 19, 2012. It was concluded that the extension is necessary to facilitate the decision on the Request filed on September 19, 2012. Thus, patentee respectfully requests one-month extension to facilitate the decision on the Request for Reconsideration filed on September 19, 2012.

If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

Respectfully submitted,
WPAT, P.C.

By___/Justin I. King/_____
Justin I. King
Registration No. 50,464

November 5, 2012
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing PETITION FOR EXTENSION UNDER 37 CFR 1.956 was served upon the following:

Song K. Jung

McKenna Long & Aldridge LLP
1900 K St., N.W.
Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

November 5, 2012

/Justin King/

Date

Justin King, Reg. No. 50,464

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 14146970 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 05-NOV-2012 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 13:07:15 |
| Application Type: | Reexam (Third Party) |

Payment information:

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| Submitted with Payment | no |
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File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|--|----------------------|---|------------------|------------------|
| 1 | Petition for review by the Technology Center SPRE. | ExtensionPetiton.pdf | 5752 <small>f3ff54b670243e7ec5565eac5577559e288e280b</small> | no | 2 |

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| 2 | Reexam Certificate of Service | certificate_of_service_EXTENSI ON.pdf | 3825 1c97a41fe6a552769e27e905c574b58705b a9179 | no | 1 |
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Warnings:

Information:

Total Files Size (in bytes):

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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 90/009,697 | 03/16/2010 | 6689629 | 67507-008Re-exam | 5947 |

65358 7590 11/06/2012
 WPAT, PC
 INTELLECTUAL PROPERTY ATTORNEYS
 8230 BOONE BLVD. SUITE 405
 VIENNA, VA 22182

| |
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| EXAMINER |
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NGUYEN, TUAN H

| | |
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| ART UNIT | PAPER NUMBER |
|----------|--------------|

3992

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| MAIL DATE | DELIVERY MODE |
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11/06/2012

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



DO NOT USE IN PALM PRINTER

(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

SONG K. JUNG

MCKENNA LONG AND ALDRIDGE LLP

1900 K STREET, NW

WASHINGTON, DC 20006

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

**Ex Parte Reexamination
Advisory Action
Before the Filing of an Appeal Brief**

Control No.

90/009,697

Patent Under Reexamination

6689629

Examiner

TUAN H. NGUYEN

Art Unit

3992

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

THE PROPOSED RESPONSE FILED 19 September 2012 FAILS TO OVERCOME ALL OF THE REJECTIONS IN THE FINAL REJECTION MAILED 06 June 2012.

1. Unless a timely appeal is filed, or other appropriate action by the patent owner is taken to overcome all of the outstanding rejection(s), this prosecution of the present *ex parte* reexamination proceeding WILL BE TERMINATED and a Notice of Intent to Issue *Ex Parte* Reexamination Certificate will be mailed in due course. Any finally rejected claims, or claims objected to, will be CANCELLED.

THE PERIOD FOR RESPONSE IS EXTENDED TO RUN _____ MONTHS FROM THE MAILING DATE OF THE FINAL REJECTION. Extensions of time are governed by 37 CFR 1.550(c).

NOTICE OF APPEAL

2. An Appeal Brief is due two months from the date of the Notice of Appeal filed on 06 September 2012 to avoid dismissal of the appeal. See 37 CFR 41.37(a). Extensions of time are governed by 37 CFR 1.550(c). See 37 CFR 41.37(e).

AMENDMENTS

3. The proposed amendment(s) filed after a final action, but prior to the date of filing a brief, will not be entered because:
- (a) They raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) They raise the issue of new matter (see NOTE below);
 - (c) They are not deemed to place the proceeding in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet (See 37 CFR 1.116 and 41.33(a)).

4. Patent owner's proposed response filed _____ has overcome the following rejection(s): _____
5. The proposed new or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
6. For purposes of appeal, the proposed amendment(s) a) will not be entered, or b) will be entered and an explanation of how the new or amended claim(s) would be rejected is provided below or appended.
- The status of the claim(s) is (or will be) as follows:
- Claim(s) patentable and/or confirmed: _____
- Claim(s) objected to: _____
- Claim(s) rejected: _____
- Claim(s) not subject to reexamination: _____

AFFIDAVIT OR OTHER EVIDENCE

7. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because patent owner failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
8. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence fails to overcome all rejections under appeal and/or appellant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
9. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

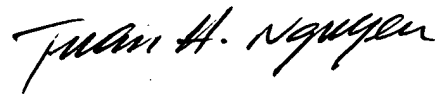
REQUEST FOR RECONSIDERATION/OTHER

10. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
11. Note the attached Information Disclosure Statement(s), PTO/SB/08, Paper No(s) _____.
12. Other: _____.

cc: Requester (if third party requester)

Continuation of 3.(d) NOTE: The deletion of "having an area" in the first steps, and the insertion of -- on the insulating substrate --, and changing from "the" to -- an -- area in the last steps of newly amended claims 1, 9 and 17 raise new issues and/or issue of new matter that would require further consideration and/or search..

Continuation of 10. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: the instant specification does not define the claimed area is of 30% of the insulating substrate, col. 5, line 66 to col. 6, line 1 discloses "the dummy conductive pattern 29 can be 30% or more on the area of a specified surface", this clearly confirms that the "area" as claimed is only a specified portion of the surface, and Zhang's dummy patterns could be considered as comprising at least 30% of the specified area of the insulating substrate, not 30% of the whole substrate as claimed.



Tuan H. Nguyen
Primary Examiner

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: 90/009,697
Patent No. 6,689,629
Filing Date: 3/16/2010
Art Unit: 3992
Examiner: Tuan H. Nguyen
Attorney Docket No.: 67507-008Re-exam

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**RESPONSE TO FINAL OFFICE ACTION
REQUEST FOR RECONSIDERATION**

Sir:

This paper responds to the Final Office Action dated June 6, 2012 and the Advisory Action dated August 28, 2012. Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 90/009,697 | 03/16/2010 | 6689629 | 67507-008Re-exam | 5947 |
| 65358 | 7590 | 11/13/2012 | EXAMINER | |
| WPAT, PC INTELLECTUAL PROPERTY ATTORNEYS 8230 BOONE BLVD. SUITE 405 VIENNA, VA 22182 | | | NGUYEN, TUAN H | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 3992 | |
| | | | MAIL DATE | DELIVERY MODE |
| | | | 11/13/2012 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patents and Trademark Office
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Alexandria, VA 22313-1450
www.uspto.gov

THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS
MCKENNA LONG & ALDRIDGE LLP
1900 K STREET, NW
WASHINGTON, DC 20006

Date:

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. : 90009697
PATENT NO. : 6689629
ART UNIT : 3992

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified ex parte reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the ex parte reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

**Decision on Petition for Extension
of Time in Reexamination**

Control No.:90/009,697

1. THIS IS A DECISION ON THE PETITION FILED 11/05/2012.

2. THIS DECISION IS ISSUED PURSUANT TO:

- A. 37 CFR 1.550(c) – The time for taking any action by a patent owner in an *ex parte* reexamination proceeding will be extended only for sufficient cause and for a reasonable time specified.
 - B. 37 CFR 1.956 – The time for taking any action by a patent owner in an *inter partes* reexamination proceeding will be extended only for sufficient cause and for a reasonable time specified.
- The petition is before the Central Reexamination Unit for consideration.

3. FORMAL MATTERS

Patent owner requests that the period for responding to the Office action mailed on 06/06/2012, which sets a three (3) month period and an extension after a filing of a Notice of Appeal dated 09/06/2012 for filing a response thereto, be extended by one (1) month.

- A. Petition fee per 37 CFR §1.17(g):
 - i. Petition includes authorization to debit a deposit account.
 - ii. Petition includes authorization to charge a credit card account.
 - iii. Other: _____
- B. Proper certificate of service was provided. (Not required in reexamination where patent owner is requester.)
- C. Petition was timely filed.
- D. Petition properly signed.

4. DECISION (See MPEP 2265 and 2665)

- A. Granted or Granted-in-part for _____, because petitioner provided a factual accounting that established sufficient cause. (See 37 CFR 1.550(c) and 37 CFR 1.956).
 Other/comment: _____
- B. Dismissed because:
 - i. Formal matters (See unchecked box(es) (A, B, C and/or D) in section 4 above).
 - ii. Petitioner failed to provide a factual accounting of reasonably diligent behavior by all those responsible for preparing a response to the outstanding Office action within the statutory time period.
 - iii. Petitioner failed to explain why, in spite of the action taken thus far, the requested additional time is needed.
 - iv. The statements provided fail to establish sufficient cause to warrant extension of the time for taking action (See attached).
 - v. The petition is moot.
 - vi. Other/comment: _____

5. CONCLUSION

Telephone inquiries with regard to this decision should be directed to Sudhanshu C. Pathak at 571-272-5509. In his/her absence, calls may be directed to Mark Reinhart at 571-272-1611 in the Central Reexamination Unit.

/Sudhanshu C. Pathak/
[Signature]

SPRS, CRU 3992
(Title)

Litigation Search Report CRU 3999

Reexam Control No. 90/009,697

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| TO: TUAN NGUYEN Location: CRU Art Unit: 3992 Date: 02/28/2013 | From: MANUEL SALDANA Location: CRU 3999 MDE 5D14 Phone: (571) 272-7740 MANUEL.SALDANA@uspto.gov |
|--|--|

Search Notes

Litigation was found for US Patent Number: 6,689,629

DOCKET 3:07CV137 (CLOSED 06/01/07)

DOCKET 1:07CV357 (CLOSED 09/26/11).

- 1) I performed a KeyCite Search in Westlaw, which retrieves all history on the patent including any litigation.
- 2) I performed a search on the patent in Lexis CourtLink for any open dockets or closed cases.
- 3) I performed a search in Lexis in the Federal Courts and Administrative Materials databases for any cases found.
- 4) I performed a search in Lexis in the IP Journal and Periodicals database for any articles on the patent.
- 5) I performed a search in Lexis in the news databases for any articles about the patent or any articles about litigation on this patent.

KEYCITE

H US PAT 6689629 ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE, Assignee: International Business Machines (Feb 10, 2004)

History

Direct History

- => 1 **ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE**, US PAT 6689629, 2004 WL 247094 (U.S. PTO Utility Feb 10, 2004)
Construed and Ruled Infringed by
- H** 2 LG Display Co., Ltd. v. AU Optronics Corp., 686 F.Supp.2d 429, 2010 Markman 545921 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF) (Markman Order Version)
AND Ruled Infringed by
- ▽ 3 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- H** 4 **LIQUID-CRYSTAL DISPLAY, LIQUID-CRYSTAL CONTROL CIRCUIT, FLICKER INHIBITION METHOD, AND LIQUID-CRYSTAL DRIVING METHOD**, US PAT 6778160, 2004 WL 1839025 (U.S. PTO Utility Aug 17, 2004)
Construed and Ruled Infringed by
- H** 5 LG Display Co., Ltd. v. AU Optronics Corp., 686 F.Supp.2d 429, 2010 Markman 545921 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF) (Markman Order Version)
AND Ruled Infringed by
- ▽ 6 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- H** 7 **SIGNAL TRANSMISSION DEVICE HAVING FLEXIBLE PRINTED CIRCUIT BOARDS**, US PAT 7090506, 2006 WL 2358291 (U.S. PTO Utility Aug 15, 2006)
Construed and Ruled Infringed by
- H** 8 LG Display Co., Ltd. v. AU Optronics Corp., 686 F.Supp.2d 429, 2010 Markman 545921 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF) (Markman Order Version)
AND Ruled Infringed by
- ▽ 9 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)

- H** 10 BACKLIGHT UNIT AND LIQUID CRYSTAL DISPLAY UTILIZING THE SAME, US PAT 7125157, 2006 WL 3011617 (U.S. PTO Utility Oct 24, 2006)
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- H** 11 LG Display Co., Ltd. v. AU Optronics Corp., 686 F.Supp.2d 429, 2010 Markman 545921 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF) (Markman Order Version)
AND Ruled Infringed by
- ▽ 12 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)

Related References

- H** 13 ELECTRICAL BATTERY., US PAT 600457, 1898 WL 29085 (U.S. PTO Utility Mar 08, 1898)
Construed by
- H** 14 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- H** 15 PROCESS FOR PRODUCING THIN-FILM TRANSISTOR, US PAT 4624737, 1986 WL 520398 (U.S. PTO Utility Nov 25, 1986)
Construed by
- H** 16 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- ▽ 17 METHOD OF MANUFACTURING FLAT PANEL BACKPLANES INCLUDING ELECTRO-STATIC DISCHARGE PREVENTION AND DISPLAYS MADE THEREBY, US PAT 5019002, 1991 WL 951630 (U.S. PTO Utility May 28, 1991)
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- H** 18 LG. Philips LCD Co. Ltd. v. Tatung Co., 434 F.Supp.2d 292, 2006 Markman 1627858 (D.Del. Jun 13, 2006) (NO. CIV.A. 05-292-JJF) (Markman Order Version)
Order Issued by
- H** 19 LG. Philips LCD Co. LTD v. Tatung Co., 2006 WL 6143228, 2006 Markman 6143228 (D.Del. Jun 13, 2006) (NO. CIV. A. 05-292-JJF)
- ▽ 20 METHOD OF MANUFACTURING FLAT PANEL BACKPLANES INCLUDING ELECTRO-STATIC DISCHARGE PREVENTION AND DISPLAYS MADE THEREBY, US PAT 5019002, 1991 WL 951630 (U.S. PTO Utility May 28, 1991)
Construed and Ruled Not Infringed by
- H** 21 LG Display Co., Ltd. v. AU Optronics Corp., 709 F.Supp.2d 311, 2010 Markman 1780027 (D.Del. Apr 30, 2010) (NO. CIV.A.06-726-JJF, CIV.A.07-357-JJF) (Markman Order Version)
- ▽ 22 LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF MANUFACTURING THE

- SAME, US PAT 5825449, 1998 WL 1429389 (U.S. PTO Utility Oct 20, 1998)
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- H** 23 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
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- H** 24 LG Philips LCD Co., Ltd. v. Chunghwa Picture Tubes, Ltd., 2006 WL 6225745, 2006 Markman 6225745 (C.D.Cal. Oct 19, 2006) (NO. CV 02-6775 CBM(JTLX))
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- H** 26 COMPUTER HAVING LIQUID CRYSTAL DISPLAY, US PAT 5926237, 1999 WL 1916690 (U.S. PTO Utility Jul 20, 1999)
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- H** 27 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- H** 28 COMPUTER HAVING LIQUID CRYSTAL DISPLAY, US PAT 6020942, 2000 WL 606086 (U.S. PTO Utility Feb 01, 2000)
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- H** 29 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- H** 30 COMPUTER HAVING LIQUID CRYSTAL DISPLAY BETWEEN FRAMES ATTACHED AT THE EDGES, US PAT 6373537, 2002 WL 555181 (U.S. PTO Utility Apr 16, 2002)
Construed by
- H** 31 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- ▽** 32 THIN-FILM TRANSISTOR AND METHOD OF MAKING SAME, US PAT 6815321, 2004 WL 2553934 (U.S. PTO Utility Nov 09, 2004)
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- H** 33 LG Display Co., Ltd. v. AU Optronics Corp., 709 F.Supp.2d 311, 2010 Markman 1780027 (D.Del. Apr 30, 2010) (NO. CIV.A.06-726-JJF, CIV.A.07-357-JJF) (Markman Order Version)
- ▽** 34 LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF MANUFACTURING THE SAME, US PAT 7218374, 2007 WL 1415964 (U.S. PTO Utility May 15, 2007)
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- H** 35 LG Display Co., Ltd. v. AU Optronics Corp., 709 F.Supp.2d 311, 2010 Markman 1780027

(D.Del. Apr 30, 2010) (NO. CIV.A.06-726-JJF, CIV.A.07-357-JJF) (Markman Order Version)

- V 36 LG.Phillips LCD Co., Ltd. v. Chi Mei Optoelectronics Corp., 551 F.Supp.2d 333 (D.Del. Apr 29, 2008) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- H 37 LG Display Co., Ltd. v. AU Optronics Corp., 265 F.R.D. 189 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- H 38 LG Display Co., Ltd. v. AU Optronics Corp., 265 F.R.D. 199 (D.Del. Mar 02, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- H 39 LG Display Co., Ltd. v. AU Optronics Corp., 2010 WL 2731667 (D.Del. Jul 09, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- H 40 LG Display Co., Ltd. v. AU Optronics Corp., 2010 WL 5463305 (D.Del. Dec 29, 2010) (NO. CIV.A. 06-726-LPS, CIV.A. 07-357-LPS)
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Court Documents

Trial Court Documents (U.S.A.)

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- 42 LG.PHILIPS LCD CO., LTD. and Lg.philips Lcd America, Inc., Counterclaim Plaintiffs, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Counterclaim, Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG.PHILIPS, 2007 WL 7589006 (Trial Pleading) (D.Del. Jul. 24, 2007) **Lg.philips LCD Co., Ltd.'s Answer to Au Optronics Corporation America's Amended Counterclaims and Additional Counterclaim Against Au Optronics Corporation America** (NO. 06-726-GMS, 07-357-JJF)
- 43 LG.PHILIPS LCD CO., LTD. and Lg.philips Lcd America, Inc., Counterclaim Plaintiffs, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Counterclaim Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG.PHILIPS L, 2007 WL 7589007 (Trial Pleading) (D.Del. Jul. 24, 2007) **Lg.philips LCD Co., Ltd.'s Answer to Au Optronics Corporation's Amended Counterclaims and Additional Counterclaims Against Au Optronics Corporation** (NO. 06-726-GMS, 07-357-JJF)
- 44 LG. PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; AU Optronics Corporation, AU Optronics Corporation of America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG.PHILIPS LCD CO., LTD and LG., 2008 WL 1995673 (Trial Pleading) (D.Del. Mar. 6, 2008) **Chi Mei Optoelectronics USA, Incanswer, Affirmative Defenses and Counterclaims to the Counterclaims of LG.Phillips LCD CO., Ltd.** (NO. 106CV00726)

- 45 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 1995674 (Trial Pleading) (D.Del. Mar. 13, 2008) **LG Display Co., Ltd.'s Answer to Chi Mei Optoelectronics USA, Inc.'s Counterclaims and Counterclaims Asserted Against Chi Mei Optoelectronics Corporation** (NO. 106CV00726)
- 46 LG DISPLAY CO., LTD, Plaintiff, v. CHI MEI OPTOELETRONICS CORPORATION; Chi Mei Optoelectronics USA, Inc.; Auo Optronics Corporation; and Au Optronics Corporation America, Defendants., 2009 WL 1347868 (Trial Pleading) (D.Del. Jan. 6, 2009) **Auo Defendants' First Amended Answer to and Counterclaim Against Plaintiff and Additional Party Lg. Display America, Inc.** (NO. 106CV00726)
- 47 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; Au Optronics Corporation, Au Optronics Corporation of America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD and Lg Display A, 2009 WL 1347870 (Trial Pleading) (D.Del. Jan. 15, 2009) **Chi Mei Optoelectronics Corporation's First Amended Answer, Affirmative Defenses and Counterclaims to the Complaint of Lg Display Co., Ltd.** (NO. 106CV00726)
- 48 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 1347874 (Trial Pleading) (D.Del. Jan. 26, 2009) **LG Display America, Inc.'s Answer in Response to AU Optronics Corporation's Counterclaim Against Plaintiff LG Display Co., Ltd. and Additional Party LG Display America, Inc.** (NO. 106CV00726)
- 49 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 1347875 (Trial Pleading) (D.Del. Jan. 27, 2009) **LG Display Co., Ltd.'s Answer in Response to Au Optronics Corporation's Counterclaim Against Plaintiff Lg.philips Lcd Co., Ltd. and Additional Party Lg Display America, Inc.** (NO. 106CV00726)

D.Del. Expert Testimony

- 50 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680917 (Expert Report and Affidavit) (D.Del. Aug. 10, 2008) **Declaration of Dr. Pochi Yeh** (NO. 06-726, JJF)
- 51 LG DISPLAY Co., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680918 (Expert Report and Affidavit) (D.Del. Aug. 10, 2008) **Declaration of Dr. John D. Villasenor in Support of Cmo's Opening Brief on Claim Construction** (NO. 06-726, JJF)
- 52 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680919 (Expert Report and Affidavit) (D.Del. Aug. 11, 2008) **Declaration of Dr. Miltiadis Hatalis in Support of Defendants Chi Mei Optoelectronics' Proposed Claim Constructions** (NO. 06-726, JJF)
- 53 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680921 (Expert Report and Affidavit) (D.Del. Aug. 29, 2008) **Declaration of Dr. George M. Pharr** (NO. 06-726, JJF)
- 54 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680920 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of David Eccles** (NO. 06-726, JJF)

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- 56 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680923 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Dr. Pochi Yeh in Support of Responsive Brief** (NO. 06-726, JJF)
- 57 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics Usa, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants; LG Philips L, 2008 WL 8096469 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Aris K. Silzars in Support of Auo's Response to Lgd's Claim Construction Briefing on Auo's Patents** (NO. 06-726-JJF, 07-357-JJF)
- 58 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 7505544 (Expert Report and Affidavit) (D.Del. Oct. 31, 2008) **Supplemental Declaration of Aris K. Silzars in Support of Au Optronics' Reply Brief in Support of Its Motion to Compel LGD to Produce Complete GDS Files** (NO. 06-726-JJF, 07-357-JJF)
- 59 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 8096470 (Expert Report and Affidavit) (D.Del. Nov. 19, 2008) **Declaration of Aris K. Silzars in Support of Auo's Motion to Compel LGD to Produce Technical Documents** (NO. 06-726-JJF, 07-357-JJF)
- 60 LG DISPLAY CO., LTD., v. AU OPTRONICS CORPORATION and Au Optronics Corporation America et al., 2009 WL 5850939 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,019,002** (NO. 06CV00726)
- 61 LG DISPLAY CO., LTD., v. AU OPTRONICS CORPORATION and Au Optronics Corporation America., 2009 WL 5850940 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Regarding Invalidity of United States Patent Number 7,218,374 of Lawrence Tannas, Jr.** (NO. 06CV00726)
- 62 LG DISPLAY CO., LTD., v. AU OPTRONICS CORPORATION and Au Optronics Corporation America., 2009 WL 5850941 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Numbers 5,905,274, 6,815,321, and 7,176,489** (NO. 06CV00726)
- 63 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2009 WL 6869995 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,825,449** (NO. 06CV00726)
- 64 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA,

Inc., Defendants., 2010 WL 3740722 (Expert Report and Affidavit) (D.Del. Aug. 9, 2010) **Declaration of Dr. Aris K. Silzars in Support of Au Optronics Corporation's Reply Brief in Support of Its Motion for Permanent Injunction** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
65 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 3740723 (Expert Report and Affidavit) (D.Del. Sep. 8, 2010) **Amended Declaration of Jonathan D. Putnam in Support of AU Optronics Corporation's Reply Brief in Support of its Motion for Permanent Injunction** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)

D.Del. Trial Depositions and Discovery

66 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD and LG Display America, Inc., Defendants., 2009 WL 3296153 (Trial Deposition and Discovery) (D.Del. May 22, 2009) **Au Optronics Corporation's Second Set of Interrogatories to Lg Display Co., Ltd. (Nos. 14-23)** (NO. 106CV00726)
67 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3296155 (Trial Deposition and Discovery) (D.Del. May 22, 2009) **LG Display Co., Ltd.'s Responses to Au Optronics Corporation's Second Set of Interrogatories (Nos. 14-23)** (NO. 106CV00726)

D.Del. Trial Motions, Memoranda And Affidavits

68 AU OPTRONICS CORPORATION, Plaintiff, v. LG.PHILIPS LCD CO., LTD. and LG.Philips LCD America, Inc., Defendants; LG.Philips LCD Co., Ltd. and LG.Philips LCD America, Inc., Counterclaim Plaintiffs, v. AU Optronics Corporation; AU Optronics Corporation of America; Chi Mei Optoelectronics Corporation; an, 2007 WL 2933013 (Trial Motion, Memorandum and Affidavit) (D.Del. Jul. 19, 2007) **LG.Philips LCD Co., Ltd. and LG.Philips LCD America, Inc.'s Answering Brief in Opposition to Chi Mei Optoelectronics Corporation's Motion to Dismiss for Lack of Personal Jurisdiction and for Insuffici** (NO. 07-CV-357-JJF)
69 LG. PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; Au Optronics Corporation, Au Optronics Corporation of America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG. PHILIPS LCD CO., LTD and LG, 2008 WL 1995672 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 4, 2008) **Chi Mei Optoelectronics Corporation's Opening Brief in Support of Its Motion to Strike Plaintiff's Second " "first Amended Complaint"** (NO. 106CV00726)
70 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 1995675 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 17, 2008) **Plaintiff's Answering Brief in Opposition to Chi Mei Optoelectronics Corporation's Motion to Strike Plaintiff's Amended Complaint** (NO. 106CV00726)
71 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; Au Optronics Corporation, Au Optronics Corporation of America; Tatung Company; Tatung Com-

- pany of America,inc.; and Viewsonic Corporation, Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD and LG Display Am, 2008 WL 1995676 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 25, 2008) **Reply Brief of Chi Mei Optoelectronics Corporation in Support of Its Motion to Strike Plaintiff's Second "First Amended Complaint"** (NO. 106CV00726)
- 72 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002377 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 11, 2008) **Auo's Opening Claim Construction Brief** (NO. 106CV00726)
- 73 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002378 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 11, 2008) **Memorandum In Support of Defendants Chi Mei Optoelectronics' Proposed Claim Constructions** (NO. 106CV00726)
- 74 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002379 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 12, 2008) **Opening Claim Construction Brief of Plaintiff LG Display Co., Ltd.** (NO. 106CV00726)
- 75 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002380 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Auo's Response To Lgd's Claim Construction Briefing On Auo's Patents** (NO. 106CV00726)
- 76 LG DISPLAY CO., Ltd., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; CHI, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002381 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Auo's Responsive Claim Construction Brief for Lg Display's Patents** (NO. 106CV00726)
- 77 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002382 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Response of Plaintiff Lg Display Co., Ltd. To Auo's Opening Claim Construction Brief** (NO. 106CV00726)
- 78 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002383 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Response of Plaintiff Lg Display Co., Ltd. To Cmo's Opening Claim Construction Brief** (NO. 106CV00726)
- 79 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002384 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Chi Mei Optoelectronics' Answering Memorandum Regarding Proposed Claim Constructions** (NO. 106CV00726)
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- Defendants., 2008 WL 6002385 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 10, 2008) **Plaintiff LG Display Co., Ltd.'s Brief in Support of its Motion to Strike AU Optronics Corporation's Claim Construction Briefs** (NO. 106CV00726)
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- 82 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002386 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 29, 2008) **Defendants Chi Mei Optoelectronics' Answering Brief In Opposition To Plaintiff LG Display's Motion to Strike Claim Construction Briefs** (NO. 106CV00726)
- 83 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002387 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 8, 2008) **Plaintiff LG Display Co., Ltd.'s Reply Brief In Support of its Motion to Strike CMO's Claim Construction Briefs** (NO. 106CV00726)
- 84 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 1347872 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 20, 2009) **Plaintiff Lg Display's Opening Brief in Support of its Motion to Compel Au Optronics Corporation and Chi Mei Optoelectronics Corporation to Provide Knowledgeable Deposition Witnesses and for Entry of** (NO. 106CV00726)
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- 2009 WL 3242274 (Trial Motion, Memorandum and Affidavit) (D.Del. May 1, 2009) **Chi Mei Optoelectronics' Motion in Limine No.2 to Preclude Lg Display from Presenting Evidence or Argument Regarding Findings of Infringement or Validity from Prior Litigation** (NO. 106CV00726)
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- 98 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3242284 (Trial Motion, Memorandum and Affidavit) (D.Del. May 12, 2009) **Plaintiff LG Display Company Ltd.'s Reply Breif in Support of Its Motion to Strike or Preclude Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc. From Asserting an Advice of Cou** (NO. 106CV00726)
- 99 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3242285 (Trial Motion, Memorandum and Affidavit) (D.Del. May 12, 2009) **LG Display Co., Ltd.'s Reply Brief in Support of Its Motion to Compel Auo to Provide Knowledgeable Witnesses on Key Inducement and Damages Deposition Topics** (NO. 106CV00726)
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- 106 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245833 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Au Optronics' Motion in Limine No.5 to Preclude Lg Display from Introducing Any Evidence Regarding Yield Percentage and to Preclude Mr. Cobb from Offering Any Opinions Based Upon Yield Improvements** (NO. 106CV00726)
- 107 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245834 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 1 to Preclude Joyce Pan and James Chen from Testifying at Trial because They Were not Timely Identified by AU Optronics Corporation** (NO. 106CV00726)
- 108 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245835 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 2 to Preclude Auo's Experts from Asserting Prior Art Against Lg Display's Patents that They Did not Address in Their Expert Reports** (NO. 106CV00726)
- 109 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORP., et al., Defendants., 2009 WL 3245836 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd's Motion Inlimine No. 4 to Preclude the Introduction of Testimony from the Deposition of Third Party Catalyst Sales, Inc. Prior to Appearance At the Deposition By All Counsel** (NO. 106CV00726)
- 110 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245837 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 3 to Preclude Auo from Offering Evidence Regarding Advice of Counsel** (NO. 106CV00726)
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- Defendants., 2009 WL 3245838 (Trial Motion, Memorandum and Affidavit) (D.Del. May 28, 2009) **Lg Display Co., Ltd.'s Opposition to Auo's " "Addendum" to Its Motion Limine No. 7** (NO. 106CV00726)
- 112 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245839 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 5, 2009) **Auo's Opposition to Lgd's Motion in Limine to Preclude Auo from Introducing Live Testimony from Mr. Kuang-Tao (" "Surf") Sung or Other Evidence Allegedly Showing Dates of Conception and Reduction to P** (NO. 106CV00726)
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- 115 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245842 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 8, 2009) **Au Optronics' Response to Lg Display Co. Ltd.'s Motion in Limine No. 3** (NO. 106CV00726)
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- 118 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORP., et al., Defendants., 2009 WL 3245845 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Opposition to Au Optronics Corporation's Motion in Limine No.6 to Preclude Lgd from Relying On Certain Defenses and Evidence that Lgd Failed to Disclose During Discovery** (NO. 106CV00726)
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- to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance By Experts On the Prior Testimony of Dr. Ho (NO. 106CV00726)**
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- 123 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833076 (Trial Motion, Memorandum and Affidavit) (D.Del. May 10, 2010) **Memorandum of Law in Support of Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence (NO. 106CV00726)**
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- 126 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833079 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 7, 2010) **Reply Memorandum of Law in Support of Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence (NO. 106CV00726)**
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- 128 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 7581308 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 15, 2010) **Reply Memorandum On Behalf of LG Display Co., Ltd. and LG Display America, Inc. in Support of Their Motion to Strike the September 8,2010 Amended Declaration of Jonathan D. Putnam (D.I. 1595) and the (NO. 06CV00726)**

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- 133 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; CHI MEI Optoelectronics Corporation; and CHI MEI Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2011 WL 4465152 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 7, 2011) **Intervenor Anvik Corporation's Reply Memorandum of Law in Support of Motion for Reconsideration or Reargument** (NO. 06-726-LPS, 07-357-LPS)
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D.Del. Expert Resumes

- 135 John D. Villasenor, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877461 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of John D. V** (NO. 106CV00726)
- 136 Pochi Yeh, curriculum vitae filed in LG. Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889166 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert**

- Resume of Pochi Yeh** (NO. 106CV00726)
- 137 Miltiadis K. Hatalis, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889167 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of Miltiadis K. Hatalis** (NO. 106CV00726)
- 138 David A. Eccles, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877462 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of David A. Eccles** (NO. 106CV00726)
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- 140 George M. Pharr, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6882352 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of George M. Pharr** (NO. 106CV00726)
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- 143 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159026 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 144 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159027 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 145 LG PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159028 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
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- 150 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159033 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
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- 152 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159035 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
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- 154 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 155 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 156 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 157 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 158 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
WL 6159041 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 159 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 161 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 162 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 165 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 166 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 167 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 168 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008
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- 2008) **Plaintiff Lg Display Co., Ltd.'s Brief in Support of Its Motion to Strike Chi Mei Optoelectronics Corporation's Claim Construction Briefs** (NO. 06-726, JJF)
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- 224 Allan R. Kmetz, curriculum vitae filed in LG, Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877463 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of Allan R. Kmetz** (NO. 106CV00726)
- 225 George M. Pharr, curriculum vitae filed in LG, Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6882352 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of George M. Pharr** (NO. 106CV00726)
- 226 Tsu-Jae King Liu, curriculum vitae filed in Lg. Philips Lcd Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2010 WL 5817594 (Court-filed Expert Resume) (D.Del. Mar. 2, 2010) **Expert Resume of Tsu-Jae King Liu** (NO. 106CV00726)

D.Del.

- 227 LG.PHILIPS LCD CO. LTD. v. CHI MEI OPTOELECTRONICS CORPORATION ET AL, NO. 1:06cv00726 (Docket) (D.Del. Dec. 1, 2006)
- 228 AU OPTRONICS CORPORATION v. LG.PHILIPS LCD CO. LTD. ET AL, NO. 1:07cv00357 (Docket) (D.Del. Jun. 6, 2007)

Patent Family

- 229 ARRAY SUBSTRATE FOR LIQUID CRYSTAL DISPLAY, INCLUDES DUMMY CONDUCTIVE PATTERNS ARRANGED BETWEEN CONNECTION PADS AND PIXEL ELECTRODES, Derwent World Patents Legal 2002-674166

Assignments

- 230 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 008, (DATE RECORDED: May 18, 2007)
- 231 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 017, (DATE RECORDED: Dec 21, 2005)

Patent Status Files

- .. Request for Re-Examination, (OG DATE: May 25, 2010)

Docket Summaries

- 233 AU OPTRONICS CORPORATION v. LG.PHILIPS LCD CO. LTD. ET AL, (D.DEL. Jun 06, 2007) (NO. 1:07CV00357), (35 USC 271 PATENT INFRINGEMENT)
- 234 AU OPTRONICS CORPORATION v. LG.PHILIPS LCD CO., LTD., (W.D.WIS. Mar 08, 2007)

(NO. 3:07C00137), (PROPERTY RIGHTS; PATENT)

Prior Art (Coverage Begins 1976)

- C** 235 LIQUID CRYSTAL DISPLAY DEVICE HAVING PERIPHERAL DUMMY LINES, US PAT 5285301 Assignee: Hitachi, Ltd., (U.S. PTO Utility 1994)
- C** 236 LIQUID CRYSTAL DISPLAY WITH ENHANCED GATE PAD PROTECTION AND METHOD OF MANUFACTURING THE SAME, US PAT 6163356 Assignee: LG Electronics, (U.S. PTO Utility 2000)

US District Court Civil Docket

U.S. District - Wisconsin Western
(Madison)

3:07cv137

Au Optronics Corporation v. Lg.Philips Lcd Co, Ltd

This case was retrieved from the court on Thursday, November 05, 2009

Date Filed: 03/08/2007 **Class Code:** CLOSED
Assigned To: Judge John C Shabaz **Closed:** Yes
Referred To: Magistrate Judge Crocker **Statute:**
Nature of suit: Patent (830) **Jury Demand:** Yes
Cause: PROPERTY RIGHTS; Patent **Demand Amount:** \$0
Lead Docket: none **NOS Description:** Patent
Other Docket: None
Jurisdiction: Federal Question

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Defendant

Lg.Philips Lcd Co, Ltd
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| Date | # | Proceeding Text |
|------------|----|---|
| 03/08/2007 | -- | NORTC - FEE PAID. |
| 03/08/2007 | 1 | JS-44 |
| 03/08/2007 | 2 | COMPLAINT - SUMMONS ISSUED. |
| 03/08/2007 | 3 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY PLTF. |
| 03/15/2007 | 4 | SUMMONS |
| 03/29/2007 | 5 | NOTICE OF APPEARANCE BY JAMES PETERSON, BRADY WILLIAMSON, GASPARE BONO AND TYLER GOODWYN FOR DEFTS. |
| 03/29/2007 | 6 | MOTION TO DISMISS BY DEFTS. |
| 03/29/2007 | 7 | BRIEF IN SUPPORT OF DEFTS. MOTION TO DISMISS. |
| 03/29/2007 | 8 | AFFIDAVIT OF DONG HOON HAN. |
| 03/29/2007 | 9 | MOTION TO ADMIT GASPARE J. BONO PRO HAC VICE. |
| 03/29/2007 | 10 | MOTION TO ADMIT TYLER GOODWYN PRO HAC VICE. |
| 03/29/2007 | 11 | AFFIDAVIT OF JAMES D. PETERSON IN SUPPORT OF MOTION TO ADMIT GASPARE J. BONO PRO HAC VICE. |
| 03/29/2007 | 12 | AFFIDAVIT OF JAMES D. PETERSON IN SUPPORT OF MOTION TO ADMIT TYLER GOODWYN PRO HAC VICE. |
| 04/02/2007 | 13 | ORDER ADMITTING GASPARE BONO PRO HAC VICE. |
| 04/02/2007 | 14 | ORDER ADMITTING R. TYLER GOODWYN PRO HAC VICE. |
| 04/03/2007 | 15 | MOTION TO ADMIT ATTYS. M.TYLER, B.RANGE, B.DIETZEL, J.CHEN, R.SHULMAN AND S.BAIK PRO HAC VICE. |
| 04/03/2007 | 16 | AFFIDAVIT OF JAMES R. TROUPIS. |
| 04/03/2007 | 17 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY DEFT. LG.PHILIPS LTD. |
| 04/03/2007 | 18 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY DEFT. LG.PHILIPS AMERICA. |
| 04/04/2007 | 19 | ORDER ADMITTING M.TYLER, B.RANGE, B.DIETZEL, J.CHEN, R.SHULMAN AND S.BAIK PRO HAC VICE. |
| 04/16/2007 | 20 | PPTC REPORT BY PLTF. |
| 04/16/2007 | 21 | PPTC REPORT BY DEFTS. |

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| 04/16/2007 | 22 | MOTION BY DEFTS. TO TRANSFER TO DISTRICT OF DELAWARE. |
| 04/16/2007 | 23 | BRIEF IN SUPPORT OF DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. |
| 04/16/2007 | 24 | AFFIDAVIT OF R.TYLER GOODWYN. |
| 04/17/2007 | 25 | EXHIBIT 1 TO AFFIDAVIT OF DONG HOON HAN FILED 3/29/07. |
| 04/17/2007 | 26 | WAIVER OF SERVICE OF SUMMONS BY DEFT. LG.PHILIPS LTD. |
| 04/18/2007 | 27 | BRIEF IN OPPOSITION BY PLTF. TO DEFTS. MOTION TO DISMISS. |
| 04/18/2007 | 28 | AFFIDAVIT OF DAVID W. PANNECK. |
| 04/18/2007 | 29 | AFFIDAVIT OF MICHAEL LESTINA. |
| 04/19/2007 | 30 | PTC ORDER - AMENDMENTS TO PLEADINGS DUE 5/15/07; DISPOSITIVE MOTIONS DUE 7/30/07. |
| 04/30/2007 | 31 | BRIEF IN REPLY IN SUPPORT OF DEFTS. MOTION TO DISMISS. |
| 04/30/2007 | 32 | AFFIDAVIT OF DONG HOON HAN (SUPPLEMENTAL). |
| 05/02/2007 | 33 | MOTION BY PLTF. TO ADMIT JAMES C. YOON AND JULIE HOLLOWAY PRO HAC VICE. |
| 05/02/2007 | 34 | AFFIDAVIT OF JAMES R. TROUPIS. |
| 05/03/2007 | 35 | ORDER ADMITTING JAMES YOON AND JULIE HOLLOWAY PRO HAC VICE. |
| 05/03/2007 | 36 | BRIEF IN REPLY (CORRECTED) IN SUPPORT OF DEFT. LG PHILIPS LCD AMERICA MOTION TO DISMISS. |
| 05/07/2007 | 37 | BRIEF IN OPPOSITION BY PLTF. TO DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. |
| 05/07/2007 | 38 | AFFIDAVIT OF PAUL BARBATO. |
| 05/07/2007 | 39 | AFFIDAVIT OF ARIS K. SILZARS. |
| 05/17/2007 | 40 | BRIEF IN REPLY IN SUPPORT OF DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. |
| 05/18/2007 | 41 | MOTION BY PLTF. TO COMPEL DEFT. LG PHILIPS LCD AMERICA TO RESPOND TO REQ. FOR PROD. OF INTERROGS. |
| 05/18/2007 | 42 | BRIEF IN SUPPORT OF PLTF. MOTION TO COMPEL. |
| 05/18/2007 | 43 | AFFIDAVIT OF JAMES R. TROUPIS. |
| 05/18/2007 | 44 | AFFIDAVIT (2ND) OF DAVID W. PANNECK. |
| 05/22/2007 | 45 | BRIEF IN OPPOSITION BY DEFTS. TO PLTF. MOTION TO COMPEL. |
| 05/22/2007 | 46 | AFFIDAVIT OF NICOLE TALBOTT SETTLE. |
| 05/23/2007 | -- | TELE. MOTION HEARING SET ON #41 FOR 5/30/07, 8:30 AM. |
| 05/24/2007 | -- | RECD. PROPOSED PROTECTIVE ORDER; FORWARDED TO CHAMBERS. |
| 05/29/2007 | 47 | JOINT RULE 26 REPORT. |
| 05/30/2007 | 48 | PROTECTIVE ORDER |
| 05/30/2007 | 49 | ORDER TRANSFERRING CASE TO DISTRICT OF DELAWARE. |
| 06/01/2007 | -- | RECORD SENT TO DISTRICT OF DELAWARE. |
| 07/21/2008 | -- | Further docketing is in CM/ECF at pacer.wiwd.uscourts.gov |

US District Court Civil Docket

U.S. District - Delaware
(Wilmington)

1:07cv357

Au Optronics Corporation v. Lg.Philips Lcd Co. Ltd. et al

This case was retrieved from the court on Saturday, November 10, 2012

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| Date Filed: 06/06/2007 | Class Code: CLOSED |
| Assigned To: Judge Leonard P. Stark | Closed: Yes |
| Referred To: | Statute: 35:271 |
| Nature of suit: Patent (830) | Jury Demand: Defendant |
| Cause: Patent Infringement | Demand Amount: \$0 |
| Lead Docket: 1:06cv00726 | NOS Description: Patent |
| Other Docket: 1:06cv00726 1:08cv00355 1:10cv00706 USDC/WD/WI, 07-C-137 | |
| Jurisdiction: Federal Question | |

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| Date | # | Proceeding Text |
|------------|----|--|
| 06/06/2007 | 49 | Record of case transferred in from District of Wisconsin(Western); Case Number in Other District: 07-C-137. Copy of Docket Sheet and original file with documents numbered 1-49 attached. (Attachments: # 1 DI #1# 2 DI #2# 3 Exhibit A to DI #2# 4 Exhibit B to DI #2# 5 Exhibit C to DI #2# 6 DI #3# 7 DI #4# 8 DI #5# 9 DI #6# 10 DI #7# 11 DI #8# 12 DI #9# 13 DI #10# 14 DI #11# 15 DI #12# 16 DI #13# 17 DI #14# 18 DI #15# 19 DI #16# 20 DI #17# 21 DI #18# 22 DI #19# 23 DI #20# 24 DI #21# 25 DI #22# 26 DI #23# 27 DI #24- SEALED DOCUMENT# 28 DI #25# 29 DI #26# 30 DI #27# 31 DI #28# 32 DI #29# 33 Exhibit A to DI #29# 34 Exhibit B to DI #29# 35 Exhibit C to DI #29# 36 Exhibit D to DI #29# 37 Exhibit E to DI #29# 38 DI #30# 39 DI #31# 40 DI #32- SEALED DOCUMENT# 41 DI #33# 42 DI #34# 43 DI #35# 44 DI #36# 45 DI #37# 46 DI #38# 47 DI #39# 48 Exhibit A to DI #39# 49 DI #40# 50 DI #41# 51 DI #42# 52 DI #43# 53 DI #44# 54 DI #45# 55 DI #46# 56 Exhibit A to DI #46# 57 Exhibit B to DI #46# 58 DI #47# 59 DI #48# 60 DI #49)(ead) (Entered: 06/08/2007) |
| 06/06/2007 | | Order granting Motion To Transfer matter to U.S. District Court for the District of Delaware, signed by Judge Shabaz on 5/30/07 in U.S.D.C., Wisconsin(Western) - DI # in other district: 49. (ead) (Entered: 06/08/2007) |
| 06/06/2007 | 50 | COMPLAINT filed against LG.Philips LCD Co. Ltd., LG.Philips LCD America - - filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 3/8/07 as DI #2)(Attachments: # 1 Civil Cover Sheet)(ead) (Entered: 06/08/2007) |
| 06/06/2007 | 51 | MOTION to Dismiss for Improper Venue - filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI #6) (ead) (Entered: 06/08/2007) |
| 06/06/2007 | 52 | OPENING BRIEF in Support re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD |

America. (Filed in USDC/WD/WI on 3/29/07 as DI #7) (ead) (Entered: 06/08/2007)

06/06/2007 53 AFFIDAVIT of Dong Hoon Han- filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI #8)(ead) (Entered: 06/08/2007)

06/06/2007 54 ANSWERING BRIEF in Opposition re 51 MOTION to Dismiss for Improper Venue filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 4/18/07 as DI #27) (ead) (Entered: 06/08/2007)

06/06/2007 55 REPLY BRIEF re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 4/30/07 as DI #31)(ead) (Entered: 06/08/2007)

06/06/2007 56 REPLY BRIEF re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. CORRECTED (Filed in USDC/WD/WI on 5/3/07 as DI #36) (ead) (Entered: 06/08/2007)

06/06/2007 57 MOTION to Compel LG.Philips LCD America to Respond to Requests for Production and Interrogatories and for Other Relief - filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI #41) (ead) (Entered: 06/08/2007)

06/06/2007 58 OPENING BRIEF in Support re 57 MOTION to Compel filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI #42) (ead) (Entered: 06/08/2007)

06/06/2007 59 AFFIDAVIT of James R. Troupis re 57 MOTION to Compel filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI #43) (ead) (Entered: 06/08/2007)

06/06/2007 60 AFFIDAVIT of David W. Panneck re 57 MOTION to Compel filed by AU Optronics Corporation. (Attachments: # 1 Notice of Filing of Paper Documents- Exhibits A-G) (Filed in USDC/WD/WI on 5/18/07 as DI #44)(ead) (Entered: 06/08/2007)

06/06/2007 61 ANSWERING BRIEF in Opposition re 57 MOTION to Compel filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 5/22/07 as DI #45) (ead) (Entered: 06/08/2007)

06/06/2007 62 AFFIDAVIT of Nicole Talbott Settle re 61 Answering Brief in Opposition filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 5/22/07 as DI #46) (ead) (Entered: 06/08/2007)

06/06/2007 63 NOTICE of filing the following document(s) in paper format: Exhibits A-T to Declaration of David W. Panneck (DI #28 Filed in USDC/WD/WI on 4/18/07)). Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation. (ead) (Entered: 06/08/2007)

06/06/2007 64 NOTICE of filing the following document(s) in paper format: Exhibits A-W to Declaration of Paul Barbato. (DI #38 Filed in USDC/WD/WI on 5/7/07) Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation. (ead) (Entered: 06/08/2007)

06/06/2007 65 NOTICE of filing the following document(s) in paper format: Exhibits A-G to Declaration of David W. Panneck. (Filed as DI #44 in USDC/WD/WI on 5/18/07) Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation (ead) (Entered: 06/08/2007)

06/08/2007 66 Local Counsel Letter sent to James D. Peterson. Notice of Compliance deadline set for 7/12/2007. (ead) (Entered: 06/08/2007)

06/08/2007 67 Local Counsel Letter sent to James P. Troupis. Notice of Compliance deadline set for 7/12/2007. (ead) (Entered: 06/08/2007)

06/08/2007 68 Report to the Commissioner of Patents and Trademarks for Patent/Trademark Number(s) 6,689,629; 6,976,781; 6,778,160; (ead) (Entered: 06/08/2007)

06/08/2007 69 SEALED AFFIDAVIT of R. Tyler Goodwyn in Support of LG.Philips LCD Co. Ltd's Motion to Transfer to the District of Delaware filed by LG.Philips LCD Co. Ltd. (Filed in USDC/WD/WI on 4/16/07 as DI #24) (ead) (Entered: 06/08/2007)

06/08/2007 70 SEALED AFFIDAVIT of Dong Hoon Han in Support of LG.Philips LCD America's Motion to Dismiss re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (ead) (Entered: 06/08/2007)

06/08/2007 71 NOTICE of Appearance by Richard D. Kirk on behalf of LG.Philips LCD Co. Ltd., LG.Philips LCD America (Kirk, Richard) (Entered: 06/08/2007)

06/11/2007 72 ANSWER to Complaint with Jury Demand, COUNTERCLAIM against AU Optronics Corporation by LG.Philips LCD America. (Attachments: # 1 Certificate of Service)(Kirk, Richard) (Entered: 06/11/2007)

06/11/2007 73 ANSWER to Complaint with Jury Demand, COUNTERCLAIM against AU Optronics Corporation America, Chi Mei Optoelectronics Corporation, CHI MEI OPTOELECTRONICS USA, INC., AU Optronics Corporation by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A# 2 Exhibit B# 3 Exhibit C# 4 Certificate of Service)(Kirk, Richard) (Entered: 06/11/2007)

06/12/2007 74 PRAECIPE filed by Richard D. Kirk on behalf of LG.Philips LCD Co. Ltd. requesting Clerk to issue Summonses (Attachments: # 1 Certifidate of Service)(Kirk, Richard) (Entered: 06/12/2007)

06/12/2007 Summons Issued as to AU Optronics Corporation America on 6/12/2007; CHI MEI OPTOELECTRONICS USA, INC. on 6/12/2007. (eew) (Entered: 06/12/2007)

06/13/2007 Summons Issued as to Chi Mei Optoelectronics Corporation on 6/13/2007. (eew) (Entered: 06/13/2007)

06/14/2007 75 Return of Service Executed by LG.Philips LCD Co. Ltd.. CHI MEI OPTOELECTRONICS USA, INC. served on 6/12/2007, answer due 7/2/2007. (Kirk, Richard) (Entered: 06/14/2007)

06/14/2007 76 NOTICE OF SERVICE OF ANSWER TO COMPLAINT WITH COUNTERCLAIMS ON DEFENDANT CHI MEI OPTOELECTRONICS CORPORATION PURSUANT TO 10 DEL.C. SECTION 3104 by LG.Philips LCD Co. Ltd. (Kirk, Richard) (Entered: 06/14/2007)

06/14/2007 77 NOTICE OF SERVICE OF ANSWER TO COMPLAINT WITH COUNTERCLAIMS ON DEFENDANT AU OPTRONICS CORPORATION AMERICA A/K/A AU OPTRONICS AMERICA, INC. PURSUANT TO 10 DEL.C.SECTION 3104 by LG.Philips LCD Co. Ltd. (Kirk, Richard) (Entered: 06/14/2007)

06/18/2007 78 NOTICE of Appearance by Ashley Blake Stitzer on behalf of LG.Philips LCD Co. Ltd., LG.Philips LCD America (Stitzer, Ashley) (Entered: 06/18/2007)

06/18/2007 79 NOTICE OF SERVICE of LG. PHILIPS LCD'S OBJECTIONS TO AU OPTRONICS CORPORATION'S SECOND SET OF INTERROGATORIES (NO. 17) by LG.Philips LCD Co. Ltd..(Stitzer, Ashley) (Entered: 06/18/2007)

06/21/2007 80 ANSWER to Counterclaim, COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation America.(Pascale, Karen) (Entered: 06/21/2007)

06/21/2007 81 ANSWER to Counterclaim of LG.Philips LCD Co., LTD., COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation. (Attachments: # 1 Exhibit A-C)(Pascale, Karen) (Entered: 06/21/2007)

06/21/2007 82 ANSWER to Counterclaim of LG.Philips LCD America, Inc., COUNTERCLAIM against LG.Philips LCD America by AU Optronics Corporation. (Attachments: # 1 Exhibit A-C)(Pascale, Karen) (Entered: 06/21/2007)

06/26/2007 83 Joint MOTION to Consolidate Cases - filed by AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America. (Attachments: # 1 Text of Proposed Order Of Consolidation# 2 Certificate of Compliance Local Rule 7.1.1 Statement)(Pascale, Karen) (Entered: 06/26/2007)

06/26/2007 84 NOTICE of Joint Motion To Consolidate by AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America re 83 MOTION to Consolidate Cases (Pascale, Karen) (Entered: 06/26/2007)

06/26/2007 85 Joint STATEMENT re 83 MOTION to Consolidate Cases, 84 Notice (Other) Following Transfer Pursuant To Local Rule 81.2 by AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America. (Pascale, Karen) (Entered: 06/26/2007)

06/29/2007 86 NOTICE OF SERVICE of LG.PHILIPS LCD CO., LTD.'S OBJECTIONS TO AU OPTRONICS CORPORATION'S SECOND SET OF DOCUMENTS REQUESTS (NOS. 143-152) by LG.Philips LCD Co. Ltd..(Stitzer, Ashley) (Entered: 06/29/2007)

07/02/2007 87 ANSWER to Counterclaim, COUNTERCLAIM CHI MEI OPTOELECTRONICS USA, INC.'S ANSWER, AFFIRMATIVE DEFENSES AND COUNTERCLAIMS TO THE COUNTERCLAIMS OF LG. PHILIPS LCD CO., LTD. against LG.Philips LCD Co. Ltd. by CHI MEI OPTOELECTRONICS USA, INC..(Rovner, Philip) (Entered: 07/02/2007)

07/03/2007 88 MOTION for Pro Hac Vice Appearance of Attorney M. Craig Tyler, Brian D. Range and Julie M. Holloway - filed by AU Optronics Corporation America, AU Optronics Corporation. (Pascale, Karen) (Entered: 07/03/2007)

07/05/2007 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person, MOTION to Dismiss for Insufficiency of

Service of Process - filed by Chi Mei Optoelectronics Corporation. (Rovner, Philip) (Entered: 07/05/2007)

07/05/2007 Set Briefing Schedule: re 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person MOTION to Dismiss for Insufficiency of Service of Process. Answering Brief due 7/23/2007. (lec) (Entered: 07/06/2007)

07/06/2007 90 Joint MOTION to Consolidate Cases - filed by LG. Philips LCD America, Inc., AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd.. (Pascale, Karen) (Entered: 07/06/2007)

07/06/2007 91 Joint NOTICE of Motion (Re-Notice) and Withdrawal of Motion by LG. Philips LCD America, Inc., AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd. re 92 Joint MOTION to Consolidate Cases, 90 MOTION to Consolidate Cases (Pascale, Karen) (Entered: 07/06/2007)

07/10/2007 92 Amended ANSWER to Counterclaim of LG. Philips LCD Co. Ltd., COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation America.(Pascale, Karen) (Entered: 07/10/2007)

07/10/2007 93 Amended ANSWER to Counterclaim of LG.Philips LCD Co. Ltd., COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation. (Attachments: # 1 Exhibit A - C)(Pascale, Karen) (Entered: 07/10/2007)

07/10/2007 SO ORDERED D.I. 88 MOTION for Pro Hac Vice Appearance of Attorney M. Craig Tyler, Brian D. Range and Julie M. Holloway filed by AU Optronics Corporation, AU Optronics Corporation America. Signed by Judge Joseph J. Farnan, Jr. on 7/10/2007. (lec) (Entered: 07/10/2007)

07/11/2007 ORAL ORDER re 57 MOTION to Compel filed by AU Optronics Corporation. This motion will be decided after a decision has been rendered on the pending Motion to Consolidate. Therefore, the Notice for the Motion Day Hearing of July 13, 2007 is cancelled. Ordered by Judge Joseph Farnan this 11th day of July, 2007. (dlk) (Entered: 07/11/2007)

07/11/2007 94 ANSWER to Counterclaim filed by AU Optronics Corporation by LG.Philips LCD America.(Kirk, Richard) (Entered: 07/11/2007)

07/12/2007 95 NOTICE of Withdrawal of Motion to Compel LG.Philips LCD America to Respond to Requests for Production and Interrogatories and for Other Relief by AU Optronics Corporation re 57 MOTION to Compel (Pascale, Karen) (Entered: 07/12/2007)

07/16/2007 96 Disclosure Statement pursuant to Rule 7.1 filed by AU Optronics Corporation, AU Optronics Corporation America. (Pascale, Karen) (Entered: 07/16/2007)

07/19/2007 97 Disclosure Statement pursuant to Rule 7.1 filed by Chi Mei Optoelectronics Corporation identifying CHI MEI CORPORATION as Corporate Parent. (Rovner, Philip) (Entered: 07/19/2007)

07/19/2007 98 Disclosure Statement pursuant to Rule 7.1 filed by CHI MEI OPTOELECTRONICS USA, INC. identifying CMO JAPAN CO., LTD. as Corporate Parent. (Rovner, Philip) (Entered: 07/19/2007)

07/19/2007 99 ANSWERING BRIEF in Opposition re 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person MOTION to Dismiss for Insufficiency of Service of Process filed by LG.Philips LCD America, LG.Philips LCD Co. Ltd..Reply Brief due date per Local Rules is 7/30/2007. (Attachments: # 1 Certificate of Service)(Stitzer, Ashley) (Entered: 07/19/2007)

07/19/2007 100 ORDER GRANTING D.I. 90 Motion to Consolidate Cases. This case is consolidated into Civil Action No. 06-726-GMS. All future filings shall be captioned and filed only in the consolidated lead case. Signed by Judge Joseph J. Farnan, Jr. on 07/19/2007. (dlk) (Entered: 07/23/2007)

07/19/2007 Case associated with lead case: Create association to 1:06-cv-00726-GMS. (dlk) (Entered: 07/23/2007)

07/23/2007 Case reassigned to Judge Gregory M. Sleet. Please include the initials of the Judge (GMS) after the case number on all documents filed. (Please note all future filings shall still be captioned and filed only in the consolidated lead case 1:06-cv-00726) (rjb) (Entered: 07/23/2007)

07/23/2007 101 ANSWER to Counterclaim of defendant Chi Mei Optoelectronics USA, Inc. by LG.Philips LCD America. (Attachments: # 1 certificate of service)(Kirk, Richard) (Entered: 07/23/2007)

07/24/2007 102 ANSWER to Counterclaim OF AU OPTRONICS CORPORATION AMERICA, COUNTERCLAIM against AU Optronics Corporation America by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A)(Kirk, Richard) (Entered: 07/24/2007)

07/24/2007 103 ANSWER to Counterclaim OF AU OPTRONICS CORPORATION, COUNTERCLAIM against AU Optronics Corporation by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A)(Kirk, Richard) (Entered: 07/24/2007)

09/28/2007 104 NOTICE of AU Optronics Corporation's Reply to LG.Philips LCD Co., Ltd's Additional Counterclaims by AU Optronics Corporation re 138 Answer to Counterclaim (Pascale, Karen) (Entered: 09/28/2007)

12/14/2007 Case reassigned to Judge Joseph J. Farnan, Jr. Please include the initials of the Judge (JJF) after the case number on all documents filed. (rjb) (Entered: 12/14/2007)

03/13/2008 CORRECTING ENTRY: Amended the party name for plaintiff and counterclaim plaintiff LG. Philips LCD Co., LTD to LG Display Co., Ltd., per DI # 161 ;and amended defendant and counterclaim plaintiff LG. Philips LCD America, Inc. to LG Display America, Inc., per DI # 161 . Also confirmed with counsel as to how the amended caption to read. (nms) (Entered: 03/13/2008)

03/28/2008 105 NOTICE of Service of AU Optronics Corporation's First Set of Requests for Production of Documents and Things to LG Display Co., Ltd., Nos. 1-110; AU Optronics Corporation's Second Set of Requests for Production of Documents to LG Display Co., Ltd. (Nos. 111-208); AU Optronics Corporation's First Set of Interrogatories to LG Display Co., Ltd. (Nos. 1-13), AU Optronics Corporation's Second Set of Interrogatories to LG Display Co., Ltd. (Nos. 14-23), and AU Optronics Corporation's Notice of Rule 30(b)(6) Deposition of Plaintiff LG Display Co. Ltd. by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation re (1 in 1:06-cv-00726-JJF) Complaint, (Keller, Karen) (Entered: 03/28/2008)

04/16/2008 106 TRANSCRIPT of Status Telephone Conference held on 2/14/2008 before Judge Farnan. Court Reporter: Dale C. Hawkins (Hawkins Reporting). (Transcript on file in Clerk's Office) (nms) (Entered: 04/16/2008)

04/25/2008 107 NOTICE OF SERVICE of Defendant AU Optronics Corporation's Objections and Responses to Plaintiff LG Display Co., Ltd.'s First Set of Interrogatories (Nos. 1-19); and Defendant AU Optronics Corporation's Objections and Responses to Plaintiff LG Display Co., Ltd.'s First Set of Requests for the Production of Documents and Things (Nos. 1-83) by AU Optronics Corporation.(Pascale, Karen) (Entered: 04/25/2008)

05/01/2008 108 Letter to The Honorable Mary Pat Thyng from Karen L. Pascale regarding production of license agreements - re (191 in 1:06-cv-00726-JJF) Letter. (Pascale, Karen) (Entered: 05/01/2008)

06/23/2008 109 NOTICE OF SERVICE of LG Display Co., Ltd.'s Objections and Responses to Attachment A to AU Optronics Corporation's Notice of Rule 30(b)(6) Deposition by LG Display Co., Ltd.. (Attachments: # 1 Certificate of Service)(Kirk, Richard) (Entered: 06/23/2008)

07/17/2008 110 NOTICE OF SERVICE of AU Optronics Corporations Responses and Objections to Plaintiff LG Display Co., Ltd.s Second Set of Interrogatories (Nos. 20-29); and AU Optronics Corporations Supplemental Objections and Responses to Plaintiff LG Display Co., Ltd.s First Set of Interrogatories (Nos. 1-19) by AU Optronics Corporation.(Pascale, Karen) (Entered: 07/17/2008)

07/30/2008 ORAL ORDER: LG Display Co., Ltd. shall file a response to the July 30, 2008 letter (D.I. 364 in 06-726) by Chi Mei Optoelectronics Corp. no later than 9:00 a.m. on July 31, 2008. Ordered by Judge Joseph J. Farnan, Jr. on 7/30/2008. (dlk) (Entered: 07/30/2008)

09/08/2008 ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding MOTION to Consolidate Cases filed by LG Display Co., Ltd., MOTION for Leave to File Second Amended Answer to AU Optronics Corporation's Amended Counterclaims and Additional Counterclaims filed by LG Display Co., Ltd., and the MOTION to Consolidate Cases DEFENDANT CHI MEI OPTOELECTRONICS CORPORATION'S M OTION TO CONSOLIDATE AND TO EXTEND DISCOVERY LIMITS filed by Chi Mei Optoelectronics Corporation. The motions will be decided on the papers submitted. Ordered by Judge Joseph J. Farnan, Jr. on 09/08/2008. (dlk) (Entered: 09/08/2008)

09/08/2008 ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding the CHI MEI OPTOELECTRONICS CORPORATION'S MOTION TO LIMIT THE NUMBER OF PATENTS-IN-SUIT AND STAY THE REMAINDER filed by Chi Mei Optoelectronics Corporation. A decision is deferred pending possible oral argument. Ordered by Judge Joseph J. Farnan, Jr. on 9/8/08. (dlk) (Entered: 09/08/2008)

09/08/2008 ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding Motion to Compel Chi Mei Optoelectronics Corporation to Provide Discovery filed by LG Display Co., Ltd., PLAINTIFFS CHI MEI OPTOELECTRONICS' MOTION TO COMPEL DEFENDANTS LG DISPLAY TO RESPOND TO INTERROGATORIES filed by Chi Mei Optoelectronics USA Inc.(D.I. 98 in 08-cv-00355-JJF), Chi Mei Optoelectronics Corporation, and DEFENDANTS CHI MEI

OPTOELECTRONICS' MOTION TO COMPEL PLAINTIFFS LG DISPLAY TO PRODUCE DOCUMENTS
RESPONSIVE TO DOCUMENT REQUEST NO. 98 filed by Chi Mei Optoelectronics Corporation. The
Court will decide these motions on the papers submitted. Ordered by Judge Joseph J. Farnan, Jr. on
9/8/08. (dlk) (Entered: 09/08/2008)

- 11/20/2008 111 MOTION for Leave to File A First Amended Answer and Joinder In CMO's Motion For Leave To File A First Amended Answer - filed by AU Optronics Corporation America, AU Optronics Corporation. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Local Rule 7.1.1 Statement)(Lundgren, Andrew) (Entered: 11/20/2008)
- 11/20/2008 112 NOTICE OF MOTION by AU Optronics Corporation America, AU Optronics Corporation re 111 MOTION for Leave to File ; Requesting the following Motion Day: December 19, 2008 (Lundgren, Andrew) Modified on 11/25/2008 (nms). (Entered: 11/20/2008)
- 12/04/2008 113 Amended NOTICE of [AUO's Amended Notice of Subpoena And Deposition to Centric Technical Sales on December 17, 2008] by AU Optronics Corporation America, AU Optronics Corporation re (234 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 114 Amended NOTICE of Subpoena And Deposition to Bell Microproducts, Inc. on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (230 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 115 Amended NOTICE of Subpoena And Deposition to Axis Group, Inc. on December 17, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (229 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 116 Amended NOTICE of Subpoena And Deposition to Avnet, Inc on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (228 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 117 Amended NOTICE of Subpoena And Deposition to Philips Electronics N.A., Inc. on December 17, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (344 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 118 Amended NOTICE of Subpoena And Deposition to LG Electronics Alabama, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (341 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 119 Amended NOTICE of Subpoena And Deposition to LG Electronics USA, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (342 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 120 Amended NOTICE of Subpoena And Deposition to LG Infocomm, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (340 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 121 Amended NOTICE of Subpoena And Deposition to LG International (America), Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (357 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 122 Amended NOTICE of Subpoena And Deposition to Catalyst Sales, Inc. on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (233 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/08/2008 ORAL ORDER: The Court has reviewed the parties numerous email submissions regarding discovery disputes; therefore, Counsel shall appear for the December 19, 2008 Motion Day Hearing at 10:00 AM in Courtroom 4B before Judge Joseph J. Farnan, Jr. regarding these disputes. The non-prevailing party will be assessed all fees and costs associated with these disputes. Ordered by Judge Joseph J. Farnan, Jr. on 12/8/2008. (dlk) (Entered: 12/08/2008)
- 12/08/2008 CORRECTING ENTRY: The 12/8/2008 Oral Order has been corrected to note that the non-prevailing party will be assessed fees and costs associated with email discovery dispute. Associated Cases: 1:07-cv-00357-JJF, 1:06-cv-00726-JJF(dlk) (Entered: 12/08/2008)
- 12/12/2008 123 NOTICE of [AUO's Notice of Withdrawal of Amended Notice of Subpoena and Deposition of Philips Electronics N.A., Inc.] by AU Optronics Corporation America, AU Optronics Corporation re (117 in 1:07-cv-00357-JJF, 731 in 1:06-cv-00726-JJF) Notice (Other) (Lundgren, Andrew) (Entered: 12/12/2008)
- 12/22/2008 ORAL ORDER: The Court GRANTS parties Motions To Consolidate (D.I. 298 in 1:06-cv-00726-JJF,

D.I. 89 in 1:08-cv-00355-JJF) and (D.I. 295 in 1:06-cv-00726-JJF). Accordingly, all future filings shall be made and captioned under C.A. No. 06-726 only.. Ordered by Judge Joseph J. Farnan, Jr. on 12/19/2008. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 12/22/2008)

- 12/22/2008 Case associated with lead case: Create association to 1:06-cv-00726-JJF. Associated Cases: 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 12/22/2008)
- 01/23/2009 ORAL ORDER: LG's "motion" regarding 30(b)(6) depositions per Mr. Kirk's January 16, 2009 e-mail request is DENIED. CMO's e-mail request for 30(b)(6) deposition, per Mr. Rovner's January 21, 2009 e-mail is GRANTED.. Signed by Judge Joseph J. Farnan, Jr. on 1/22/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 01/23/2009)
- 02/27/2009 124 Joint Stipulation of Authenticity As To Certain Documents by CHI MEI OPTOELECTRONICS USA, INC., Chi Mei Optoelectronics Corporation, Au Optronics Corporation, AU Optronics Corporation America, LG Display Co. Ltd., LG Display America Inc.. (Pascale, Karen) Modified on 3/3/2009 (nms). (Entered: 02/27/2009)
- 03/03/2009 SO ORDERED, re (124 in 1:07-cv-00357-JJF, 1019 in 1:06-cv-00726-JJF, 106 in 1:08-cv-00355-JJF) Joint Stipulation of Authenticity as to Certain Documents, filed by LG Display America Inc., LG Display Co. Ltd., CHI MEI OPTOELECTRONICS USA, INC., AU Optronics Corporation America, Au Optronics Corporation, Chi Mei Optoelectronics Corporation. Signed by Judge Joseph J. Farnan, Jr. on 3/3/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(nms) (Entered: 03/03/2009)
- 03/09/2009 125 NOTICE OF SERVICE of Expert Report of Jonathan D. Putnam by Au Optronics Corporation, AU Optronics Corporation America.(Pascale, Karen) (Entered: 03/09/2009)
- 03/09/2009 126 NOTICE OF SERVICE of Expert Report of Dr. Aris K. Silzars on Infringement of AUO's Asserted '781, '160, '157, '506 and '069 Patents by LGD's Accused Products by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation.(Pascale, Karen) (Entered: 03/09/2009)
- 03/09/2009 127 NOTICE OF SERVICE of Report of Expert Abbie Gregg Regarding Invalidity of United States Patent Number 6,803,984; Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Number 4,624,737; Report of Expert Lawrence Tannas, Jr. Regarding Invalidity of United States Patent Number 7,218,374; Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Numbers 5,905,274, 6,815,321, and 7,176,489; Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,019,002; Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 6,664,569; and Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,825,449 by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation.(Pascale, Karen) (Entered: 03/09/2009)
- 05/10/2009 128 Official Transcript of Pretrial Conference held on 05-07-09 before Judge Joseph J. Farnan, Jr. Court Reporter/Transcriber Leonard A. Dibbs. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Transcriber before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER (Redaction Request due 6/1/2009., Redacted Transcript Deadline set for 6/10/2009., Release of Transcript Restriction set for 8/10/2009.). (lad) (Entered: 05/10/2009)
- 05/12/2009 129 MEMORANDUM ORDER Setting Bench Trial between LG and AUO for 6/2/2009 09:30 AM in Courtroom 4B before Judge Joseph J. Farnan, Jr. A second Pretrial Conference is set for 5/20/2009 01:30 PM in Courtroom 4B before Judge Joseph J. Farnan, Jr. (See Order for details). Signed by Judge Joseph J. Farnan, Jr. on 5/12/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF(dlk) (Entered: 05/12/2009)
- 05/21/2009 130 Official Transcript of Final Pretrial Conference held on 05-20-09 before Judge Joseph J. Farnan, Jr. Court Reporter/Transcriber Leonard A. Dibbs. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Transcriber before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER (Redaction Request due 6/11/2009., Redacted Transcript Deadline set for 6/22/2009., Release of Transcript Restriction set for 8/19/2009.). (lad) (Entered: 05/21/2009)
- 05/22/2009 131 REDACTED VERSION of (1266 in 1:06-cv-00726-JJF) SEALED MOTION in Limine No. 7 To Preclude LGD's Reliance On Certain Prior Art Products And Foreign Language References by AU Optronics Corporation. (Attachments: # 1 Text of Proposed Order)(Pascale, Karen) (Entered: 05/22/2009)
- 07/20/2009 CORRECTING ENTRY: Official Transcripts of 10 day Bench Trial held in June 2009 (DI 132 thru 141) removed from member case CA 07-357 JJF. For information regarding these transcripts, SEE LEAD CASE CA 06-726 JJF, DI 1366 thru 1375. (rbe) (Entered: 07/20/2009)

06/03/2010 133 NOTICE of Appearance by Colm F. Connolly on behalf of LG Display America Inc., LG Display America, Inc., LG Display America, Inc. (Connolly, Colm) (Entered: 06/03/2010)

06/04/2010 134 MOTION for Pro Hac Vice Appearance of Attorney Kell M. Damsgaard, Thomas B. Kenworthy, and Collin W. Park - filed by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 06/04/2010)

06/07/2010 135 MOTION for Pro Hac Vice Appearance of Attorney John D. Zele - filed by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 06/07/2010)

06/14/2010 CORRECTING ENTRY: D.I. 132 was removed from the docket as it was corrected by D.I. 133. (nms) (Entered: 06/14/2010)

07/16/2010 136 PROPOSED Final Judgment ORDER, by AU Optronics Corporation America, Au Optronics Corporation. (Lundgren, Andrew) Modified on 7/19/2010 (nms). (Entered: 07/16/2010)

07/16/2010 137 Letter to The Honorable Joseph J. Farnan, Jr. from Andrew A. Lundgren regarding Proposed Final Judgment Order. (Lundgren, Andrew) Modified on 7/19/2010 (nms). (Entered: 07/16/2010)

08/18/2010 Case reassigned to Judge Leonard P. Stark. Please include the initials of the Judge (LPS) after the case number on all documents filed. (rpg) (Entered: 08/18/2010)

09/22/2010 SO ORDERED, re (1597 in 1:06-cv-00726-LPS) MOTION for Pro Hac Vice Appearance of Attorney John V. Gorman filed by LG Display Co., Ltd., LG Display America, Inc. Signed by Judge Leonard P. Stark on 9/22/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(rpg) (Entered: 09/22/2010)

11/02/2010 138 ORAL ORDER: IT IS ORDERED that counsel are to provide the Court with a joint status report on or before November 9, 2010. ORDERED by Judge Leonard P. Stark on 11/2/10. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(ntl) (Entered: 11/02/2010)

11/09/2010 139 Joint STATUS REPORT by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 11/09/2010)

12/13/2010 SO ORDERED, re (1630 in 1:06-cv-00726-LPS) Stipulation Regarding Participation of Litigation Counsel in Reexamination Proceedings by AU Optronics Corporation America, Au Optronics Corporation. Signed by Judge Leonard P. Stark on 12/13/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(rpg) (Entered: 12/13/2010)

12/29/2010 140 MEMORANDUM OPINION re 1508 MOTION For Limited Intervention To Obtain Copies Of Evidence - filed by Anvik Corporation. Signed by Judge Leonard P. Stark on 12/29/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(rpg) (Entered: 12/29/2010)

12/29/2010 141 ORDER granting in part and denying in part 1508 in 1:06-cv-00726-LPS MOTION to Intervene filed by Anvik Corporation re 1634 in 1:06-cv-00726-LPS and 140 in 1:07-cv-00357-LPS Memorandum Opinion by Judge Leonard P. Stark. Signed by Judge Leonard P. Stark on 12/29/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(rpg) (Entered: 12/29/2010)

01/12/2011 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument - filed by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)

01/12/2011 143 OPENING BRIEF in Support re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument (Memorandum of Law in Support of Intervenor Anvik Corporation's Motion for Reconsideration or Reargument filed by Anvik Corporation. Answering Brief/Response due date per Local Rules is 1/31/2011. (Brennecke, Sean) (Entered: 01/12/2011)

01/12/2011 144 PROPOSED ORDER Reconsideration or Reargument re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)

01/12/2011 145 STATEMENT re 143 Opening Brief in Support, 144 Proposed Order, 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument Rule 7.1.1 Statement of Movant Anvik Corporation by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)

02/07/2011 146 REPLY BRIEF re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument [Intervenor Anvik Corporation's Reply Memorandum of

Law in Support of Motion for Reconsideration or Reargument] filed by Anvik Corporation.
(Brennecke, Sean) (Entered: 02/07/2011)

- 02/14/2011 147 MEMORANDUM OPINION re Anvik's motion for reconsideration or reargument. Signed by Judge Leonard P. Stark on 2/14/11. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(ntl) (Entered: 02/14/2011)
- 02/14/2011 148 ORDER denying (1637) Motion for Reconsideration in case 1:06-cv-00726-LPS; denying (142) Motion for Reconsideration in case 1:07-cv-00357-LPS. Signed by Judge Leonard P. Stark on 2/14/11. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(ntl) (Entered: 02/14/2011)
- 09/20/2011 149 STIPULATION of Dismissal with prejudice pursuant to Fed. R. Civ. P. 41(a) by AU Optronics Corporation America, Au Optronics Corporation, LG Display America, Inc., LG Display Co., Ltd., AU Optronics Corporation, LG Display America, Inc.. (Pascale, Karen) (Entered: 09/20/2011)
- 09/26/2011 150 SO ORDERED, re 149 Stipulation of Dismissal, ***Civil Case Terminated. Signed by Judge Leonard P. Stark on 9/26/11. (ntl) (Entered: 09/26/2011)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: **90/009,697**
Applicant: **6689629**
Filing Date: **03-16-2010**
Art Unit: **3992**
Examiner: **NGUYEN, TUAN H**
Attorney Docket No.: **67507-008Re-exam**

MS Appeal Brief - Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

APPEAL BRIEF

Sir:

As required under 37 CFR § 41.37(a), this brief is filed in furtherance of the Notice of Appeal filed on 9/6/2012.

This brief contains items under the following headings as required by 37 CFR § 41.37:

- I.** Real party in interest
- II.** Related appeals and interferences
- III.** Status of claims
- IV.** Status of amendments
- V.** Summary of claimed subject matter
- VI.** Grounds of rejection to be reviewed on appeal

VII. Argument

VIII. Claims appendix

I. REAL PARTY IN INTEREST

The real party in interest for this appeal is:

AU OPTRONICS CORPORATION

II. RELATED APPEALS AND INTERFERENCES

There were two related judicial proceedings 1:07-cv-00357 and 3:07-cv-137. Both were terminated; thus, no pending related appeals, interferences, or judicial proceedings known to the undersigned which will directly affect or be directly affected by or have a bearing on the Board's decision in this appeal.

III. STATUS OF CLAIMS

- A. There are 12 claims pending in this application. Claims 1, 9, and 17 are independent claims; claims 3, 5-8, 11, and 14-16 are dependent claims.
- B. Current status of the claims: Claims 1, 3, 5-9, 11, and 14-17 are rejected, Claims 2, 4, 10, 12, and 13 are canceled.
- C. The claims on appeal are claims 1, 3, 5-9, 11, and 14-17 as amended on April 23, 2012.

IV. STATUS OF AMENDMENTS

The pending claims before this appeal were last amended and entered into the record on April 23, 2012 as a response to the non-final rejection mailed on March 2, 2012.

V. SUMMARY OF CLAIMED SUBJECTED MATTER

The instant patent provides an array substrate for display, and a method of manufacturing the array substrate for display and a display device using the array substrate for display. The present invention is an array substrate for display, which includes a thin film transistor array formed on an insulating substrate, a plurality of wirings arranged on the insulating substrate, connection pads arranged on unilateral ends of the wirings and respectively connected therewith, pixel electrodes, and dummy conductive patterns on the insulating substrate. The dummy conductive patterns are arranged between the ends of the connection pads and ends of the pixel electrodes at least 30% of the area (*Inter alia*, Abstract, Figs. 2 and 5, and Specification, column 4, line 27 to column 6, line 6).

As claimed and described, the claimed invention recites both wirings and dummy conductive patters on the same insulating substrate (*inter alia*, Fig. 3). The recited invention further provides that the dummy conductive pattern occupied at least 30% (*inter alia*, column 3, lines 17-20, column 5, line 55 to column 6, line 6, column 7, first paragraph).

Claim 1 recites, *inter alia*, an array substrate for display, comprising a layer of an insulating substrate (*inter alia*, Figs. 1 and 2, structure 10 as the insulating substrate, column 4, lines 43-46), having an area, a thin film transistor array formed on the insulating substrate (*inter alia*, Fig. 2, structure 21 as thin film transistor, column 4, lines 45-47), a plurality of wirings arranged on the insulating substrate (*inter alia*, column 4, line 38), each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array (*inter alia*, Fig. 2, wiring is communicating with thin film transistor 21), and at least one of the wirings comprises at least an upper layer and a lower

layer of conductive materials (*inter alia*, Fig. 5c), wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof (*inter alia*, column 3, lines 22-29), connections pads (*inter alia*, Fig. 2, structure 21), each connection pad contacting the first end of at most one of the plurality of wirings (*inter alia*, Fig. 2, structure 27 connects to one wire), pixel electrodes (*inter alia*, Fig. 2, structure 22), and dummy conductive patterns (*inter alia*, Figs. 2-4 and 5c, structure 29), the dummy patterns comprising at least about 30% of the area of the insulating substrate (*inter alia*, column 3, lines 17-20, column 5, line 55 to column 6, line 6, column 7, first paragraph), the dummy conductive patterns situated between the connection pads and the pixel electrodes (*inter alia*, column 3, lines 17-20) such that the dummy patterns are not in contact with any of the wirings (*inter alia*, Figs. 2-4 and 5c, structure 29 as the dummy conductive pattern is not in contact with any wiring).

Claim 9 recites, *inter alia*, a method for forming an array substrate for display, comprising forming a layer of an insulating substrate (*inter alia*, Figs. 1 and 2, structure 10 as the insulating substrate, column 4, lines 43-46), having an area, forming a thin film transistor array and a plurality of wirings on the insulating substrate (*inter alia*, Fig. 2, structure 21 as thin film transistor, column 4, lines 45-47), each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array (*inter alia*, Fig. 2, wiring is communicating with thin film transistor 21), wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials (*inter alia*, Fig. 5c), and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof (*inter alia*, column 3, lines 22-29), forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings (*inter alia*, Fig. 2, structure 21), forming pixel electrodes (*inter alia*, Fig. 2, structure 22),

and forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate (inter alia, column 3, lines 17-20, column 5, line 55 to column 6, line 6, column 7, first paragraph), the dummy patterns situated between the connection pads and the pixel electrodes (inter alia, column 3, lines 17-20) such that the dummy patterns are not in contact with any of the wirings (inter alia, Figs. 2-4 and 5c, structure 29 as the dummy conductive pattern is not in contact with any wiring).

Claim 17 recites, *inter alia*, an array substrate for display, comprising a layer of an insulating substrate (inter alia, Figs. 1 and 2, structure 10 as the insulating substrate, column 4, lines 43-46), having an area, a thin film transistor array formed on the insulating substrate (inter alia, Fig. 2, structure 21 as thin film transistor, column 4, lines 45-47), a plurality of wirings arranged on the insulating substrate (inter alia, column 4, line 38), each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array (inter alia, Fig. 2, wiring is communicating with thin film transistor 21), connections pads, each connection pad contacting the first end of at most one of the plurality of wirings (inter alia, Fig. 2, structure 21), pixel electrodes (inter alia, Fig. 2, structure 22), and dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate (inter alia, column 3, lines 17-20, column 5, line 55 to column 6, line 6, column 7, first paragraph), the dummy conductive patterns situated between the connection pads and the pixel electrodes (inter alia, column 3, lines 17-20) such that the dummy patterns are not in contact with any of the wirings (inter alia, Figs. 2-4 and 5c, structure 29 as the dummy conductive pattern is not in contact with any wiring).

Support for all limitations recited in the independent claims can be found in the above corresponding cited sections of the Specification, along with additional sections of the instant Specification.

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA.

VII. ARGUMENT

- A. The cited references do not disclose or teach that both dummy conductive patterns and wirings are on the same layer.

- B. The cited references do not disclose or teach the recited 30% area occupied by the dummy conductive patterns.

- A. The cited references do not disclose or teach that both dummy conductive patterns and wirings are on the same layer.

Patentee respectfully submits that the cited references, combined or individually, do not disclose the recited limitation of both dummy conductive patterns and wiring are on the *same layer*.

The claim 1 recites the following limitations:

“a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.”

The claim 1 explicitly recites that both the wirings and the conductive dummy patterns are located on the same insulating substrate. As illustrated in the Fig. 5c and column 6, lines 35-47, both the conductive dummy patterns 29 and the wirings 2 are formed on the same layer.

The Office alleged that nowhere in the instant patent claims recites that both conductive dummy patterns and wirings are on the same layer (Advisory Action mailed on August 28, 2012). Patentee respectfully disagrees. The claim 1 explicitly recites that both the wirings and conductive dummy patterns are on the same insulating substrate. The Fig. 5c of the original Specification also clearly shows that both wirings and conductive dummy patterns are on the same layer. Thus, the instant patent claims do recite that both conductive dummy patterns and wirings are on the same layer.

Patentee respectfully submits that the cited reference Zhang does not disclose any conductive dummy patterns on the same layer as the wirings as recited in the claim 1.

Zhang discloses enhancing seal's bonding by balancing the bonding pressure with a dummy pattern. Zhang's figure 16, as a prior art, connects to the peripheral drive outside of the sealing region (Zhang, column 2, lines 25-36). Zhang discloses that the figure 16 prior art is prone to the problem of moisture entering the sealing region. Zhang then discloses that Zhang's figure 17, as an

improved prior art, minimizes the moisture problem by providing the capability of connecting the peripheral drive circuit within the sealing region (Zhang, column 2, lines 35-52), which the figure 17 moves the connection pads within the sealing region to accommodate connecting the peripheral drive circuits within the sealing region. However, Zhang discloses that since a one-side drive system is generally adapted without any provision of a redundant circuit, the figure 17 usually is wired asymmetrically. Such that, Zhang discloses that the figure 17 prior art is prone to a bonding problem on the sealing the sealing region due to the uneven pressure caused by the asymmetrical wiring arrangement. Zhang then disclose his invention with the alleged dummy pattern 304 to provide the support for a uniform sealing pressure (Zhang, column 4, lines 21-35).

The Office alleged that Zhang discloses the recited dummy conductive pattern (Zhang, dummy structure 304 in regions R3 and R3 in Zhang's Fig. 1) between the pixel electrodes and connection pads (Office Action mailed on March 2, 2012, page 4, last paragraph). Patentee respectfully submits that Zhang's dummy patterns 304 are not on the same layer as Zhang's communication wirings 302 and 303.

Patentee respectfully submits that Zhang explicitly discloses that the dummy pattern is *not* on the same layer as the wirings. Zhang's Fig. 6 explicitly shows that the dummy patterns 304 are formed on layer 227 while the wirings 302/303 are formed on the layer 220. Since Zhang explicitly discloses that the dummy patterns 304 and wirings 302/303 are on two separate layers, Patentee respectfully submits that Zhang does not disclose the recited structural limitations of both dummy patterns and wiring on the same layer.

- B.** The cited references do not disclose or teach the recited 30% area occupied by the dummy conductive patterns.

Patentee submits that the cited references, combined or individually, do not disclose the recited limitation of “dummy conductive patterns comprise at least about **30%** of an area of the insulating substrate between the connection pads and the pixel electrodes”.

MPEP 2111 provides that during patent examination, the pending claims must be “given their broadest reasonable interpretation consistent with the specification (*Phillips v. AWH Corp.*, 415 F.3d 1303, 75 USPQ2d 1321, Fed. Cir. 2005). The claim 1, as stated above, explicitly recites that the dummy conductive patterns are arranged between the connection pads and pixel electrode, and occupied 30% of the area. This limitation is supported by the Specification, as originally presented, column 3, lines 17-20, and Figs. 2-4.

The Office alleged that the instant patent does not define the claimed area (Advisory Action mailed on August 28, 2012). Patentee respectfully disagrees. As disclosed in the instant Patent’s Specification column 3, lines 17-20, and Figs. 2-4, the recited area is between the connection pads and pixel electrode as recited at the end of the claim 1.

The Office further alleged that Zhang discloses the recited at least 30% of the area since Zhang discloses that the dummy patterns are 30 microns wide, the wirings are 10 micro wide, and the distances among wirings for accommodating the dummy patterns are 50 microns (Office Action mailed June 6, 2012, page 4, last 2 lines, page 5, first 2 lines). Patentee respectfully disagrees such disclosure is sufficient to disclose the recited limitation. Patentee respectfully submits that since Zhang does not disclose the relevant length of each related components, the disclosure without relevant length is not sufficient

to conclude or to support the rejection over the limitation of at least about **30% of the area**. The recited limitation directs towards that the dummy patterns, situated between the connection pads and pixel electrodes, occupy at least 30% of the area. Zhang's disclosure merely provides the relevant width for each component. Patentee respectfully submits that the mere width for each component without the length is not sufficient to ascertain in calculating the occupied area. In addition, as shown in Zhang's APA Fig. 17 and Fig. 1, the wires 15/16/105/106 are extended to the very edge of the substrate 101; the exact location of Office's alleged connecting ends/connection pads cannot be ascertained on wires 15/16/105/106. Since the exactly locations of the alleged connection pads cannot be ascertained, the area as for the base in calculating the recited at least 30% ratio also cannot be ascertained. Since Zhang does not provide sufficient information in calculating the area occupied by Zhang's dummy pattern, there cannot be a proper base for calculating the ratio which Zhang's dummy pattern occupies. Thus, Zhang is disclosure is insufficient to calculate the recited ratio.

Hence, Patentee respectfully submits that Zhang does not disclose the recited limitation of "dummy conductive patterns comprise at least about **30% of an area** of the insulating substrate" as alleged by the Office.

Claims 2-5, 7-13, and 15-20 depend directly or indirectly from independent claim 1, independent claim 6, or independent claim 14; thus they incorporate every recited limitation in their respective independent claim. Each of these dependent claims are similarly allowable with their corresponding independent claim for at least the reasons provided above, in regard to each associated independent claim, in addition to their own merits

Appellant respectfully requests favorable determination based upon the above arguments and evidenced rationality.

Conclusion

Claims 1, 3, 5-9, 11, and 14-17 are pending in this application. In view of the reasons stated above, Appellant requests the board for a favorable decision and reversing the rejection on the record accordingly. A copy of claims 1, 3, 5-9, 11, and 14-17 is attached hereto as Claims Appendix.

Respectfully submitted,
WPAT, P.C.

By____/Justin I. King/_____
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C. CLAIMS APPENDIX

1. An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

2. (Cancelled)

3. The array substrate for display according to claim 1 wherein the lower layer wiring material is selected from the group consisting of aluminum and aluminum alloys.

4. (Cancelled)

5. The array substrate for display according to claim 3 wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof.
6. The array substrate for display according to claim 5 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.
7. The array substrate for display according to claim 1 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.
8. The array substrate for display according to claim 5 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.
9. A method for forming an array substrate for display, comprising:
 - forming a layer of an insulating substrate, having an area;
 - forming a thin film transistor array and a plurality of wirings on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
 - forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
 - forming pixel electrodes, and

forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

10. (Cancelled)

11. The method for forming an array substrate for display according to claim 9 wherein the lower layer wiring materials is selected from the group consisting of aluminum and aluminum alloys.

12. (Cancelled)

13. (Cancelled)

14. The method for forming an array substrate for display according to claim 9 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

15. The method for forming an array substrate for display according to claim 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

16. The method for forming an array substrate for display according to claim 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

17 An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

Electronic Patent Application Fee Transmittal

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| Application Number: | 90009697 |
| Filing Date: | 16-Mar-2010 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Filer: | Anthony King/Justin King |
| Attorney Docket Number: | 67507-008Re-exam |

Filed as Large Entity

ex parte reexam Filing Fees

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|---|----------|----------|--------|----------------------|
| Basic Filing: | | | | |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| Filing a Brief in Support of an Appeal | 1402 | 1 | 630 | 630 |

Post-Allowance-and-Post-Issuance:

Extension of Time:

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------------|----------|----------|--------|----------------------|
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 630 |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 15289616 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 18-MAR-2013 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 17:51:11 |
| Application Type: | Reexam (Third Party) |

Payment information:

| | |
|--|-----------------|
| Submitted with Payment | yes |
| Payment Type | Deposit Account |
| Payment was successfully received in RAM | \$630 |
| RAM confirmation Number | 7630 |
| Deposit Account | 505064 |
| Authorized User | |

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-------------------|----------------------|-----------|----------------------------------|------------------|------------------|
| Page 1727 of 1919 | | | | | |

| | | | | | |
|---|----------------------|-------------------|---|----|----|
| 1 | Appeal Brief Filed | AppealBriefV1.pdf | 59908 3bd7610f57c82ae593c205e72338cb467ae4f8d1 | no | 22 |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30493 5292cf5e01fe461c22deacf42849e8df8f87b403 | no | 2 |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 90401 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

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**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b)**

Docket Number (Optional)
67507-008Re-exam

First named inventor: 6689629

Application No.: 90/009,697

Art Unit: 3992

Filed: 03-16-2010

Examiner: NGUYEN, TUAN H

Title: ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AN

Attention: Office of Petitions

Mail Stop Petition

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

FAX (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (571) 272-3282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the office notice or action plus any extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee - required for all utility and plant applications filed before June 8, 1995; and for all design applications; and
- (4) Statement that the entire delay was unintentional

1. Petition Fee

Small entity-fee \$ _____ (37 CFR 1.17(m)). Application claims small entity status. See 37 CFR 1.27.

Other than small entity-fee \$ 1890 (37 CFR 1.17(m))

2. Reply and/or fee

A. The reply and/or fee to the above-noted Office action in the form of appeal brief (identify type of reply):

has been filed previously on _____.

is enclosed herewith.

B. The issue fee and publication fee (if applicable) of \$ _____.

has been paid previously on _____.

is enclosed herewith.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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3. Terminal disclaimer with disclaimer fee

- Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ _____ for a small entity or \$ _____ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(b) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D)).]

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

/Justin King/

Signature

Justin King

Type or Printed name

8230 Boone Blvd. suite 405, Vienna, VA 22182

Address

Address

03/18/2013

Date

50464

Registration Number, If applicable

703-639-0151

Telephone Number

- Enclosures:
- Fee Payment
 - Reply
 - Terminal Disclaimer Form
 - Additional sheets containing statements establishing unintentional delay
 - Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- Transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

Date

Signature

Typed or printed name of person signing certificate

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

| | |
|---|---|
| Application Number: | 90009697 |
| Filing Date: | 16-Mar-2010 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Filer: | Anthony King/Justin King |
| Attorney Docket Number: | 67507-008Re-exam |

Filed as Large Entity

ex parte reexam Filing Fees

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--|----------|----------|--------|----------------------|
| Basic Filing: | | | | |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Petition-Revive Unintent. Abandoned Appl | 1453 | 1 | 1890 | 1890 |

Patent-Appeals-and-Interference:

Post-Allowance-and-Post-Issuance:

Extension of Time:

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------------|----------|----------|--------|----------------------|
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 1890 |

Electronic Acknowledgement Receipt

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|---|---|
| EFS ID: | 15289696 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 18-MAR-2013 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 17:54:13 |
| Application Type: | Reexam (Third Party) |

Payment information:

| | |
|--|-------------|
| Submitted with Payment | yes |
| Payment Type | Credit Card |
| Payment was successfully received in RAM | \$1890 |
| RAM confirmation Number | 7770 |
| Deposit Account | |
| Authorized User | |

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-------------------|----------------------|-----------|-------------------------------------|------------------|------------------|
| Page 1734 of 1919 | | | | | |

| | | | | | |
|---|---|------------|--|----|---|
| 1 | Petition for review by the Office of Petitions. | sb0064.pdf | 204586 | no | 3 |
| | | | a7a59c91ce83b8c5cfee8b9176ed6ff7da92bb2f | | |

Warnings:

Information:

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| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30693 | no | 2 |
| | | | 017dfda8383a05396761eb6cd51bf4c4a63648a | | |

Warnings:

Information:

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| Total Files Size (in bytes): | | | 235279 | | |
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No: 90/009,697
Filing Date: 03-16-2010
Applicant: Takatoshi Tsujimura
Assignee: AU Optronics Corp.
Art Unit: 3992
Examiner: Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing **APPEAL BRIEF** was served upon the following:

Song K. Jung

McKenna Long & Aldridge LLP

1900 K St., N.W.

Washington DC 20006

By depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

March 18, 2013

/Justin King/

Date

Justin King, Reg. No. 50,464

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 15292021 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 18-MAR-2013 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 20:08:54 |
| Application Type: | Reexam (Third Party) |

Payment information:

| | |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|---|-----------|---|------------------|------------------|
| 1 | Applicant Response to Pre-Exam Formalities Notice | 1.pdf | 50463 <small>238cf1f7af8996a2e3c38ac5f6e1b668dae43 171</small> | no | 1 |

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New Applications Under 35 U.S.C. 111

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New International Application Filed with the USPTO as a Receiving Office

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No: 90/009,697
Filing Date: 03-16-2010
Applicant: Takatoshi Tsujimura
Assignee: AU Optronics Corp.
Art Unit: 3992
Examiner: Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing **APPEAL BRIEF** was served upon the following:

Song K. Jung

McKenna Long & Aldridge LLP

1900 K St., N.W.

Washington DC 20006

By depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

March 18, 2013

/Justin King/

Date

Justin King, Reg. No. 50,464

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 15292050 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 18-MAR-2013 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 20:12:19 |
| Application Type: | Reexam (Third Party) |

Payment information:

| | |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|-----------|---|------------------|------------------|
| 1 | Reexam Certificate of Service | 1.pdf | 50463 <small>238cf1f7af8996a2e3c38ac5f6e1b668dae43 171</small> | no | 1 |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b) was served upon the following:

Song K. Jung
McKenna Long & Aldridge LLP
1900 K St., N.W.
Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

March 18, 2013

Date

/Justin King/

Justin King, Reg. No. 50,464

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 15294370 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
| Filer Authorized By: | Anthony King |
| Attorney Docket Number: | 67507-008Re-exam |
| Receipt Date: | 19-MAR-2013 |
| Filing Date: | 16-MAR-2010 |
| Time Stamp: | 10:44:19 |
| Application Type: | Reexam (Third Party) |

Payment information:

| | |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|--|---|------------------|------------------|
| 1 | Reexam Certificate of Service | certificate_of_service_revival. pdf | 3927 <small>2aa445e54f6f3694f1f23a3de6a84be4d197c759</small> | no | 1 |

Warnings:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 90/009,697 | 03/16/2010 | 6689629 | 67507-008Re-exam | 5947 |

65358 7590 11/25/2013
WPAT, PC
INTELLECTUAL PROPERTY ATTORNEYS
8230 BOONE BLVD. SUITE 405
VIENNA, VA 22182

EXAMINER

NGUYEN, TUAN H

| ART UNIT | PAPER NUMBER |
|----------|--------------|
| 3992 | |

| MAIL DATE | DELIVERY MODE |
|------------|---------------|
| 11/25/2013 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

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CENTRAL REEXAMINATION UNIT

THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS
MCKENNA LONG & ALDRIDGE LLP
1900 K STREET, NW
WASHINGTON, DC 20006

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. : 90009697
PATENT NO. : 6689629
ART UNIT : 3992

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified ex parte reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the ex parte reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).



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(For Patent Owner)

MAILED

NOV 25 2013

CENTRAL REEXAMINATION UNIT

McKenna, Long & Aldridge, LLP
1900 K Street, NW
Washington, DC 20006

(For Third Party Requester)

In re Tsujimura *et al.*
Ex Parte Reexamination Proceeding
Control No. 90/009,697
Filed: March 16, 2010
For: U.S. Patent No. 6,689,629

:
: **DECISION GRANTING**
: **PETITION UNDER**
: **37 CFR 1.137(b)**
:

This is a decision on the March 18, 2013 patent owner petition under 37 CFR 1.137(b) to accept an unintentionally delayed response to final Office action and revive the present terminated reexamination¹ ("the March 18, 2013 patent owner petition to revive").

The March 18, 2013 patent owner petition to revive is before the Office of Patent Legal Administration (OPLA) for consideration.

The March 18, 2013 patent owner petition to revive is granted.

STATUTES, REGULATIONS, AND PATENT EXAMINING PROCEDURES

35 U.S.C. 41(a)(7) provides, in pertinent part:

REVIVAL FEES. — On filing each petition ... for an unintentionally delayed response by the patent owner in any reexamination proceeding ...

¹ Although a Notice of Intent to Issue *Ex Parte* Reexamination Certificate (NIRC) has not been mailed to set forth the termination of the prosecution in this instance, the prosecution was "terminated" within the meaning of 37 CFR 1.550(d) for failure of the patent owner to timely file a proper response, within the meaning of 37 CFR 1.113, to the final Office action of June 6, 2012.

35 U.S.C. 133 provides:

Upon failure of the applicant to prosecute the application within six months after any action therein, of which notice has been given or mailed to the applicant, or within such shorter time, not less than thirty days, as fixed by the Director in such action, the application shall be regarded as abandoned by the parties thereto, unless it be shown to the satisfaction of the Director that such delay was unavoidable.

35 U.S.C. 305 provides, in pertinent part:

After the times for filing the statement and reply provided for by section 304 of this title have expired, reexamination will be conducted according to the procedures established for initial examination under the provisions of sections 132 and 133 of this title.

37 CFR 1.113 provides, in pertinent part:

(a) On the second or any subsequent examination or consideration by the examiner the rejection or other action may be made final, whereupon ... for *ex parte* reexaminations filed under § 1.510, patent owner's reply is limited to appeal in the case of rejection of any claim (§ 41.31 of this title), or to amendment as specified in § 1.114 or § 1.116.

(c) Reply to a final rejection or action must include cancellation of, or appeal from the rejection of, each rejected claim. If any claim stands allowed, the reply to a final rejection or action must comply with any requirements or objections as to form.

37 CFR 1.137 provides, in pertinent part:

(b) *Unintentional*. If the delay in reply by ... patent owner was unintentional, a petition may be filed pursuant to this paragraph to revive ... a reexamination prosecution terminated under §§ 1.550(d) or 1.957(b) or limited under § 1.957(c) A grantable petition pursuant to this paragraph must be accompanied by:

- (1) The reply required to the outstanding Office action or notice, unless previously filed;
- (2) The petition fee as set forth in § 1.17(m);
- (3) A statement that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to this paragraph was unintentional. The Director may require additional information where there is a question whether the delay was unintentional

(d) *Terminal disclaimer*.

- (1) ***
- (2) ***

(3) The provisions of paragraph (d)(1) of this section do not apply to ... reexamination proceedings.

37 CFR 1.550 provides, in pertinent part:

(d) If the patent owner fails to file a timely and appropriate response to any Office action or any written statement of an interview required under § 1.560(b), the prosecution in the *ex parte* reexamination proceeding will be a terminated prosecution, and the Director will proceed to issue and publish a certificate concluding the reexamination proceeding under § 1.570 in accordance with the last action of the Office.

(e) If a response by the patent owner is not timely filed in the Office,

(1) ***

(2) The response may nevertheless be accepted if the delay was unintentional; a petition to accept an unintentionally delayed response must be filed in compliance with § 1.137(b).

37 CFR 41.37 provides, in pertinent part:

(a) Appellant must file a brief under this section within two months from the date of filing the notice of appeal under § 41.31.

MPEP 2268 provides, in pertinent part:

II. PETITION BASED ON UNINTENTIONAL DELAY

The unintentional delay fee provisions of 35 U.S.C. 41(a)(7) are imported into, and are applicable to, all *ex parte* reexamination proceedings by section 4605 of the American Inventors Protection Act of 1999. The unintentional delay provisions of 35 U.S.C. 41(a)(7) became effective in reexamination proceedings on November 29, 2000. Accordingly, the Office will consider, in appropriate circumstances, a petition showing unintentional delay under 37 CFR 1.137(b) where untimely papers are filed subsequent to the order for reexamination. Any such petition must provide a verified statement that the delay was unintentional, a proposed response to continue prosecution (unless it has been previously filed), and the petition fee set forth in 37 CFR 1.17(m).

IV. FURTHER DISCUSSION OF THE PETITION REQUIREMENTS

See also MPEP § 711.03(c), subsection III, for a detailed discussion of the requirements of petitions filed under 37 CFR 1.137(a) and (b).

MPEP 2274 provides, in pertinent part:

IV. FAILURE TO TIMELY FILE APPEAL BRIEF

Failure to file the brief and/or the appeal brief fee within the permissible time will result in dismissal of the appeal. ... The reexamination prosecution is then terminated, and a Notice of Intent to Issue Ex Parte Reexamination Certificate (NIRC) (see MPEP § 2287) will subsequently be issued indicating the status of the claims at the time of appeal.

DECISION

The Petition Under 37 CFR 1.137(b) is Granted

A grantable petition under 37 CFR 1.137(b) for a reexamination proceeding must be accompanied by: (1) a response to the outstanding Office action; (2) the petition fee set forth in 37 CFR 1.17(m); and (3) a proper statement under 37 CFR 1.137(b)(3) that the entire delay in filing the required response from the due date of the response to the filing of a grantable petition was unintentional.

Regarding item (1), prosecution of the instant reexamination proceeding was terminated due to the failure to timely submit a proper response, within the meaning of 37 CFR 1.113, to the June 6, 2012 final Office action. Although patent owner timely filed a Notice of Appeal on September 6, 2012, patent owner failed to timely file a compliant Appeal Brief further to the September 6, 2012 Notice of Appeal.

Patent owner submitted an Appeal Brief on March 18, 2013. Patent owner's March 18, 2013 Appeal Brief has been found, by the Patent Trial and Appeal Board, to be in compliance with the regulations. Further, patent owner has been charged the requisite \$630.00 fee under 37 CFR 41.20(b)(2) for filing a brief in support of an appeal. Item (1) has thus been satisfied.

A petition fee of \$1,890.00 and a proper statement under 37 CFR 1.137(b)(3) were submitted as part of the March 18, 2013 patent owner petition to revive, which satisfy items (2) and (3), respectively.

The present proceeding is a reexamination proceeding; thus, the petition does not require a terminal disclaimer.²

Accordingly, the March 18, 2013 patent owner petition to accept an unintentionally delayed Appeal Brief is **granted**.

CONCLUSION

1. The March 18, 2013 patent owner petition to revive under 37 CFR 1.137(b) is **granted**.

² See: 37 CFR 1.137(d)(3).

2. Art Unit 3992 of the Central Reexamination Unit will process patent owner's March 18, 2013 Appeal Brief in the 90/009,697 reexamination proceeding, after which the examiner will proceed to issue an examiner's answer under 37 CFR 41.39 or take other appropriate action.
3. Any inquiry concerning the examination of the reexamination proceeding should be directed to the primary examiner, Tuan H. Nguyen, of CRU Art Unit 3992, at (571) 272-1694.
4. Any inquiry concerning this decision should be directed to Jeffrey R. West, Legal Advisor, at (571) 272-2226 or to the undersigned at (571) 272-7728.

/Raul Tamayo/
Raul Tamayo
Senior Legal Advisor
Office of Patent Legal Administration

November 1, 2013



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
90/009,697 03/16/2010 6689629 67507-008Re-exam 5947

65358 7590 01/24/2014
WPAT, PC
INTELLECTUAL PROPERTY ATTORNEYS
8230 BOONE BLVD. SUITE 405
VIENNA, VA 22182

EXAMINER

NGUYEN, TUAN H

ART UNIT PAPER NUMBER

3992

MAIL DATE DELIVERY MODE

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***EX PARTE* REEXAMINATION COMMUNICATION TRANSMITTAL FORM**

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).



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BEFORE THE PATENT TRIAL AND APPEAL BOARD

Application Number: 90/009,697
Filing Date: 03-16-2010
Appellant(s): AU Optronics Corporation

Justin I. King
For Appellant

EXAMINER'S ANSWER

This is in response to the appeal brief filed 03/18/13 appealing from the Office action mailed 06/06/12.

(1) Real Party in Interest

The examiner has no comment on the statement, or lack of statement, identifying by name the real party in interest in the brief.

(2) Related Appeals and Interferences

There were two related judicial proceedings 1:07-cv-00357 and 3:07-cv- 137. Both were terminated; thus, no pending related appeals, interferences, or judicial proceedings which will directly affect or be directly affected by or have a bearing on the Board's decision in this appeal.

(3) Status of Claims

The following is a list of claims that are rejected and pending in the application:

The application contains claims 1-17, of which claims 1, 9, and 17 are independent claims.

Claims that were rejected and on appeal are 1, 3, 5-9, 11, 14-17, as amended on April 23, 2012.

Claims 2, 4, 10, 12, and 13 are canceled.

(4) Status of Amendments After Final

The examiner has no comment on the appellant's statement of the status of amendments after final rejection contained in the brief.

(5) Summary of Claimed Subject Matter

The examiner has no comment on the summary of claimed subject matter contained in the brief.

(6) Grounds of Rejection to be reviewed on Appeal

The examiner has no comment on the appellant's statement of the grounds of rejection to be reviewed on appeal. Every ground of rejection set forth in the Office action from which the appeal is taken (as modified by any advisory actions) is being maintained by the examiner except for the grounds of rejection (if any) listed under the subheading "WITHDRAWN REJECTIONS." New grounds of rejection (if any) are provided under the subheading "NEW GROUNDS OF REJECTION."

(7) Claims Appendix

The examiner has no comment on the copy of the appealed claims contained in the Appendix to the appellant's brief.

(8) Evidence Relied Upon

| | | |
|-------------------------|------------------|---------|
| U.S. Pat. No. 5,995,189 | Zhang | 11-1999 |
| U.S. Pat. No. 6,689,629 | Tsujimura et al. | 02-2004 |

Art Unit: 3992

(9) Grounds of Rejection

The following ground(s) of rejection are applicable to the appealed claims:

Claim Rejections - Relevant Statutes

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Detailed Analysis

1/. Claims 1, 3, 5-9, 11, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang in view of the '629 APA.

Art Unit: 3992

Regarding claims 1, 9:

Claims 1 and 9 were amended in the pending ex parte reexamination and reads as follows:

1. (Amended) *An array substrate for display, comprising:
a layer of an insulating substrate, having an area;
a thin film transistor array formed on the insulating substrate;
a plurality of [wiring] wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;*

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy [patters] patterns are not in contact with any of the [wiring] wirings.

9. (Amended) *A [meted] method for forming an array substrate for display, comprising:*

forming a layer of an insulating substrate, having an area;

forming a thin film transistor array and a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, the wiring in communication with at least [on] one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

forming pixel electrodes, and

forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patters are not in contact with any of the [wiring] wirings.

Art Unit: 3992

Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display and method of forming an array substrate comprising the steps of forming a layer of insulating substrate 1 or 101 of glass or quartz having an area (col. 1:35-36, col. 6:29-30);

Zhang discloses plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 1 or 101 in a matrix with TFTs and pixel electrodes 102 at the crossover points of the scan and signal lines (col. 1:34-40, 6:40-44).

Zhang discloses the wirings (i.e. scan lines 106 and signal lines 105) are connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), forming connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); forming pixel electrodes 102 (Figs. 1, 16-17); forming dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See, Zhang, Figs. 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30 microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Zhang discloses that the wirings can comprise of a three layer film of titanium/aluminum/titanium. Zhang fails to disclose *the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring*

Art Unit: 3992

material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof as now amended.

The '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed wiring having upper layer selected from the group consisting of molybdenum, chromium, tantalum, titanium over lower aluminum layer as suggested by the '629 APA in Zhang since the use of a harder to be oxidized material from the upper layer would protect the aluminum from oxidation and prevent the undercut of the lower conductive material.

Regarding claims 3, 5-8, 11, 14-16:

As noted above, the '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium. Since the upper wiring material is the same material for forming the upper wiring as in the instant patent claim; therefore, it inherently does not become insoluble in an acid or alkaline etchant.

2/. Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Zhang.

Regarding claim 17:

Claim 17 was amended in the pending ex parte reexamination and reads as follows:

17 (New) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

Art Unit: 3992

Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display comprising a layer of insulating substrate 101 of glass or quartz having an area (col. 1:35-36, 6:29-30);

Zhang discloses a thin film transistor array 112 in pixel section 102, plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 101 in a matrix with TFTs and pixel electrodes at the crossover points of the scan and signal lines (col. 1:34-40, 6:34-44).

Zhang discloses a plurality of wirings (i.e. scan lines 106 and signal lines 105) are directly connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); pixel electrodes 102 (Figs. 1, 16-17); dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See Zhang, Figs. 1, 16, 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30 microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Art Unit: 3992

(9) NEW GROUNDS OF REJECTION

No new ground of rejection.

(10) Response to Argument

A. Appellant's argue in his Brief, pages 12-14, for the first time after Final rejection, that the cited references do not disclose or teach that both dummy conductive patterns and wirings are on the same layer.

The instant claims 1, 9, and 17 recites "*a plurality of wirings arranged **on the insulating substrate** (emphasis added)... a plurality of dummy conductive patterns on **the insulating substrate** (emphasis added)... the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings*". This does not require that the wirings and dummy patterns are both directly formed on and in contact to the insulating substrate as argued by the Appellant.

Contrary to the Appellant's argument in his Brief, pages 14, last paragraph that "Zhang explicitly discloses that the dummy patterns is *not* on the same layer (i.e. layer of an insulating substrate) as the wirings". Zhang Fig. 6 shows the wirings 303 and dummy patterns 304 are on different layers, Zhang discloses exactly what the instant claims call for, i.e. they are both formed **on** the same layer of an insulating substrate 201 as required (Col. 7, lines 22-28, Figs. 2E and 5, col. 9, lines 16-54), the dummy patterns 304 situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings 303 (Fig. 6).

The argument that both wirings and dummy patterns formed “on” the insulating substrate necessarily means the dummy patterns should be on the same layer as the wirings (i.e. both of wiring 2 and dummy pattern 29 is in direct contact to the insulating substrate 1 as shown in Fig. 5(c) of the instant specification) is not commensurate in scope with the instant claims.

Moreover, Zhang, Figs. 4, 6, and on col. 9, lines 42-47, col. 10, lines 26-30 discloses the formation of **dummy wirings 301, wirings 302 and wirings 303 on the same layer** (i.e. on the insulating substrate 201).

B. Appellant's argue for the first time after Final rejection that the cited references do not disclose or teach the cited 30% area occupied by the dummy conductive patterns.

Zhang clearly discloses an area (i.e. regions R1-R4 in Figs 1, 4) for forming dummy patterns 304. The dummy patterns are 30 microns wide each, the dummy wirings 301, wirings 302, 303 are 10 microns wide (col. 10, lines 35-46), and the distances among wirings for accommodating the dummy patterns are 50 microns.

Given the lengths of the wirings 302, 303, and dummy patterns 301, 304 are limited by the constant width L of the sealing region 107 as shown in Fig. 4 (col. 10, lines 59-63) of about several mm (col. 14, lines 37-39), the area occupied by dummy patterns 301 and 304 is at least about 30% of the specified area (i.e. R1-R4) as shown below:

Art Unit: 3992

The area of dummy 304 of 30 microns x L / 50 microns x L (distance between wirings 301, 302, 303) + 10 microns x L (area of wiring 301 or 302 or 303) = 30/60 which clearly shows the dummy 304 occupies at least 30% or more of the specified area (i.e. 50% in this case). The ratio of this portion is repeatedly the same over the other regions R1-R4 as shown in Figs. 4, 6.

Moreover, the instant specification, col. 3, lines 19-20, and 39-40 discloses that "dummy conductive patterns can occupy 30% area or more", col. 5, line 66 to col. 6, line 6 discloses "the dummy conductive pattern 29 can be 30% or more on the area of a specified surface". The instant claim recites "an insulating substrate having an area", this "area" on the surface of the insulating substrate is not clearly defined.

Since "an area", as recited in claims 1, 9 and 17 is not clearly defined, it is unclear as to what the dimension of this area is, and where it's located on the insulating substrate. The dummy patterns 304 in Zhang could be considered as comprising at least 30% of any suitable area on the insulating substrate 201.

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/Tuan H. Nguyen/

Primary Examiner
Central Reexamination Unit
Art Unit 3992

Conferees:

/Minh Nguyen/
Primary Examiner
CRU, AU 3992

/JENNIFER MCNEIL/
Supervisory Patent Examiner, Art Unit 3992

Requirement to pay appeal forwarding fee. In order to avoid dismissal of the instant appeal in any application or ex parte reexamination proceeding, 37 CFR 41.45 requires payment of an appeal forwarding fee within the time permitted by 37 CFR 41.45(a), unless appellant had timely paid the fee for filing a brief required by 37 CFR 41.20(b) in effect on March 18, 2013.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450**

Appl No.: **90/009,697**
Applicant: **6689629**
Filing Date: **03-16-2010**
Art Unit: **3992**
Examiner: **NGUYEN, TUAN H**
Attorney Docket No.: **67507-008Re-exam**

MS Appeal Brief - Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**REPLY BRIEF
IN SUPPORT OF APPELLANT'S APPEAL BRIEF
TO THE PATENT TRIAL AND APPEAL BOARD**

Sir:

As required under 37 CFR § 41.37(a), this reply brief is to responding to the Answer dated 1/24/2014.

Applicant believes no appeal forwarding fee is required, the Applicant had timely paid the fee for filing a brief on March 18, 2013. If any necessary fee is not submitted via EFS, the Office is authorized to charge the necessary fee to Deposit Account No. 50-5064.

This brief contains items under the following headings as required by 37 CFR § 41.37:

- I.** Real party in interest
- II.** Related appeals and interferences

- III.** Status of claims
- IV.** Status of amendments
- V.** Summary of claimed subject matter
- VI.** Grounds of rejection to be reviewed on appeal
- VII.** Argument
- VIII.** Claims appendix

I. REAL PARTY IN INTEREST

The real party in interest for this appeal is:

AU OPTRONICS CORPORATION

II. RELATED APPEALS AND INTERFERENCES

There were two related judicial proceedings 1:07-cv-00357 and 3:07-cv-137. Both were terminated; thus, no pending related appeals, interferences, or judicial proceedings known to the undersigned which will directly affect or be directly affected by or have a bearing on the Board's decision in this appeal.

III. STATUS OF CLAIMS

- A. There are 12 claims pending in this application. Claims 1, 9, and 17 are independent claims; claims 3, 5-8, 11, and 14-16 are dependent claims.
- B. Current status of the claims: Claims 1, 3, 5-9, 11, and 14-17 are rejected, Claims 2, 4, 10, 12, and 13 are canceled.
- C. The claims on appeal are claims 1, 3, 5-9, 11, and 14-17 as amended on April 23, 2012.

IV. STATUS OF AMENDMENTS

The pending claims before this appeal were last amended and entered into the record on April 23, 2012 as a response to the non-final rejection mailed on March 2, 2012.

V. SUMMARY OF CLAIMED SUBJECTED MATTER

The instant patent provides an array substrate for display, and a method of manufacturing the array substrate for display and a display device using the array substrate for display. The present invention is an array substrate for display, which includes a thin film transistor array formed on an insulating substrate, a plurality of wirings arranged on the insulating substrate, connection pads arranged on unilateral ends of the wirings and respectively connected therewith, pixel electrodes, and dummy conductive patterns on the insulating substrate. The dummy conductive patterns are arranged between the ends of the connection pads and ends of the pixel electrodes at least 30% of the area (*Inter alia*, Abstract, Figs. 2 and 5, and Specification, column 4, line 27 to column 6, line 6).

As claimed and described, the claimed invention recites both wirings and dummy conductive patters on the same insulating substrate (*inter alia*, Fig. 3). The recited invention further provides that the dummy conductive pattern occupied at least 30% (*inter alia*, column 3, lines 17-20, column 5, line 55 to column 6, line 6, column 7, first paragraph).

Claim 1 recites, *inter alia*, an array substrate for display, comprising a layer of an insulating substrate (*inter alia*, Figs. 1 and 2, structure 10 as the insulating substrate, column 4, lines 43-46), having an area, a thin film transistor array formed on the insulating substrate (*inter alia*, Fig. 2, structure 21 as thin film transistor, column 4, lines 45-47), a plurality of wirings arranged on the insulating substrate (*inter alia*, column 4, line 38), each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array (*inter alia*, Fig. 2, wiring is communicating with thin film transistor 21), and at least one of the wirings comprises at least an upper layer and a lower

layer of conductive materials (*inter alia*, Fig. 5c), wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof (*inter alia*, column 3, lines 22-29), connections pads (*inter alia*, Fig. 2, structure 21), each connection pad contacting the first end of at most one of the plurality of wirings (*inter alia*, Fig. 2, structure 27 connects to one wire), pixel electrodes (*inter alia*, Fig. 2, structure 22), and dummy conductive patterns (*inter alia*, Figs. 2-4 and 5c, structure 29), the dummy patterns comprising at least about 30% of the area of the insulating substrate (*inter alia*, column 3, lines 17-20, column 5, line 55 to column 6, line 6, column 7, first paragraph), the dummy conductive patterns situated between the connection pads and the pixel electrodes (*inter alia*, column 3, lines 17-20) such that the dummy patterns are not in contact with any of the wirings (*inter alia*, Figs. 2-4 and 5c, structure 29 as the dummy conductive pattern is not in contact with any wiring).

Claim 9 recites, *inter alia*, a method for forming an array substrate for display, comprising forming a layer of an insulating substrate (*inter alia*, Figs. 1 and 2, structure 10 as the insulating substrate, column 4, lines 43-46), having an area, forming a thin film transistor array and a plurality of wirings on the insulating substrate (*inter alia*, Fig. 2, structure 21 as thin film transistor, column 4, lines 45-47), each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array (*inter alia*, Fig. 2, wiring is communicating with thin film transistor 21), wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials (*inter alia*, Fig. 5c), and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof (*inter alia*, column 3, lines 22-29), forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings (*inter alia*, Fig. 2, structure 21), forming pixel electrodes (*inter alia*, Fig. 2, structure 22),

and forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate (inter alia, column 3, lines 17-20, column 5, line 55 to column 6, line 6, column 7, first paragraph), the dummy patterns situated between the connection pads and the pixel electrodes (inter alia, column 3, lines 17-20) such that the dummy patterns are not in contact with any of the wirings (inter alia, Figs. 2-4 and 5c, structure 29 as the dummy conductive pattern is not in contact with any wiring).

Claim 17 recites, *inter alia*, an array substrate for display, comprising a layer of an insulating substrate (inter alia, Figs. 1 and 2, structure 10 as the insulating substrate, column 4, lines 43-46), having an area, a thin film transistor array formed on the insulating substrate (inter alia, Fig. 2, structure 21 as thin film transistor, column 4, lines 45-47), a plurality of wirings arranged on the insulating substrate (inter alia, column 4, line 38), each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array (inter alia, Fig. 2, wiring is communicating with thin film transistor 21), connections pads, each connection pad contacting the first end of at most one of the plurality of wirings (inter alia, Fig. 2, structure 21), pixel electrodes (inter alia, Fig. 2, structure 22), and dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate (inter alia, column 3, lines 17-20, column 5, line 55 to column 6, line 6, column 7, first paragraph), the dummy conductive patterns situated between the connection pads and the pixel electrodes (inter alia, column 3, lines 17-20) such that the dummy patterns are not in contact with any of the wirings (inter alia, Figs. 2-4 and 5c, structure 29 as the dummy conductive pattern is not in contact with any wiring).

Support for all limitations recited in the independent claims can be found in the above corresponding cited sections of the Specification, along with additional sections of the instant Specification.

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Claims 1, 3, 5-9, 11, and 14-17 are rejected under 35 U.S.C. §103(a), as being unpatentable over Zhang in view of the '629 APA.

VII. ARGUMENT

- A. The cited references do not disclose or teach that both dummy conductive patterns and wirings are on the same layer.

- B. The cited references do not disclose or teach the recited 30% area occupied by the dummy conductive patterns.

- A. The cited references do not disclose or teach that both dummy conductive patterns and wirings are on the same layer.

The Office's Answer alleged the following:

- A1. The claim language does not require that both dummy conductive patterns and wirings are directly on and in contact with the insulating substrate (Answer, page 10, Section 10, 2nd paragraph).

- A2. Zhang's Figs. 2E and 5-6 disclose wiring 303 and dummy pattern 304 on different layers, but wiring 303 and dummy pattern 304 are **on** the same layer of 201 (Answer, page 10, Section 10, 3rd paragraph).

- A3. Zhang's Figs. 4 and 6 show dummy wiring 301 and wirings 302/303 on the same layer (Answer, page 11, 2nd paragraph).

The Office seemed to argue alternatively that the claim does not require both dummy patterns and wirings to be on the same layer, and even if the claim does require on the same layer, Zhang does disclose both dummy patterns and

wirings on the same layer. Appellant respectfully disagrees. Appellant respectfully submits that the claims on record do require both dummy patterns and wiring to be on the same insulating layer; Zhang's Fig. 2E and 5-6 only show the wiring 303 and dummy pattern 304 are **above** the layer 201, **not on** the layer 201, and the layer 201 is not even the recited insulating layer; further, Zhang's dummy wiring 301 and wiring 302/303 on the same layer is irrelevant because Zhang's dummy wiring 301 is not a dummy pattern situated between the connection pads and the pixel electrodes as required by the claim. Appellant respectfully requests the Board to consider the following reasons and to issue favorable consideration.

A1. The claim language does require that both dummy conductive patterns and wirings are directly on and in contact with the insulating substrate.

MPEP 2111 provides that during patent examination, the pending claims must be "given their broadest reasonable interpretation consistent with the specification (*Phillips v. AWH Corp.*, 415 F.3d 1303, 75 USPQ2d 1321, Fed. Cir. 2005). MPEP 2111.01 further provides that the words of a claim must be given their "plain meaning" unless such meaning is inconsistent with the specification.

Appellant respectfully submits that the interpretation of both wirings and dummy patterns are on the same insulating layer is consistent with the specification as shown in the Fig. 5(c), where wiring 2 and dummy pattern 29 are on the same insulating substrate 1. The Office alleged that the claim language does not require that both dummy conductive patterns and wirings are directly on and in contact with the insulating substrate (Answer, page 10,

Section 10, 2nd paragraph). Appellant respectfully submits that Office's interpretation of **on** is not reasonable under the broadest interpretation practice.

The "on" in the pending claims does imply a directly contact. The Office alleged that the "on" in the claim does not imply a "directly on". Appellant respectfully submits that in order for the adverb "directly" carrying out its alleged intended purpose of further limiting on the claim scope, there must be a portion of the original claim scope not covered by the adverb "directly". Appellant respectfully submits that for the plain meaning of the "on", there is no meaningful interpretation for "indirectly on" in the instant patent as to support Office's allegation of "directly on". Because the context of the "directly" cannot be ascertained in the instant patent as alleged by the Office, Appellant respectfully submits that Office's interpretation of **on** is not a broadest reasonable interpretation under MEPE 2111.

A2. Zhang's Figs. 2E and 5-6 disclose wiring 303 and dummy pattern 304 on different layers; the wiring 303 and dummy pattern 304 are **not on** the layer 201, they are **above** the layer of 201; further the layer 201 is not the recited insulating layer.

Zhang's Figs. 2A-E show a process of fabricating a thin film transistor; the layer 201 is situated at the bottom, and the layers 206, 220 and 227 are **above** the layer 201. Zhang explicitly discloses layers 206, 220, and 227 as the insulating layers, where the insulating layer 220 covers the wirings 301/302/303, the dummy pattern 304 is on the insulating layer 220, and the insulating 227 covers the dummy pattern 304 (Zhang, column 10, 4th paragraph, Figs. 2A-E, and Fig. 6).

In view of Zhang's structure as illustrated above, Appellant respectfully submits that Zhang's wirings and dummy patterns are **not on** the layer 201; rather, Zhang's wirings and dummy patterns are **above** the layer 201, and the layer 201 also is not the recited insulating layer. Zhang explicitly discloses that layers 206, 220, and 227 are the insulating layers; and Zhang's Figs. 2A-E explicitly disclose insulating layers 220 and 227 are **above** layer 201; since wirings 301/302/303 are covered by the insulating layer 220, and dummy patterns 304 are on the insulating layer 220, Appellant respectfully submits that Zhang explicitly discloses wirings 301/302/303 and dummy patterns 304 are all **above** layer 201.

Furthermore, Zhang's layer 201 is not the recited insulating layer. Zhang explicitly discloses that layers 206, 220, and 227 are the insulating layers. As the instant patent's wirings and dummy patterns being adjacent and insulated by the instant patent's insulating layer, Zhang's insulating layers 206, 220, and 227 are also adjacent and provide the similar support to Zhang's wirings and dummy patterns. Therefore, in view of the functional similarities, Appellant respectfully submits that Zhang's layer 201 cannot be considered as the recited insulating layer as alleged in the Answer.

A3. Zhang's dummy wirings 301 and wirings 302/303 on the same layer is irrelevant because Zhang's dummy wiring 301 is not a dummy pattern situated between the connection pads and the pixel electrodes as required by the claim.

The claim recites that dummy pattern is situated between the connection pads and the pixel electrode. Zhang's dummy wiring 301 is not situated between the connection pads and the pixel electrode.

Zhang's Fig. 1 shows regions of R1, R2, R3, and R4. Zhang's Fig. 4 shows that dummy wirings 301 are placed in regions R1 and R2. As shown in the Zhang's Fig. 1, because the dummy wirings 301 are not meant to connect to any external circuit, there are no connection pads adjacent to the dummy wirings 301. Since there are no connection pads adjacent to the dummy wirings 301, dummy wirings 301 are not situated between the connection pads and the pixel electrodes. Since dummy wirings 301 are not situated between the connection pads and the pixel electrodes, Zhang's dummy wirings 301 are not equivalent to the recited dummy patterns. Hence, Appellant respectfully submits that since Zhang's dummy wirings 301 are not the recited dummy patterns, Zhang's dummy wirings 301 and wirings 302/303 on the same layer is irrelevant.

B. The cited references do not disclose or teach the recited 30% area occupied by the dummy conductive patterns.

The Office alleged Zhang does disclose the recited 30% by presenting a ratio calculation based on an arbitrary area. The Office alleged that more than 30% ratio is reached by calculating area for all wirings with a constant L (Answer, page 12, first paragraph). Appellant respectfully submits that the Office's calculation is merely self-serving.

The claim of the instant patent recites the dummy patterns situated between the connection pads and pixel electrodes, and occupying at least 30% of the area. As stated in the previously submitted brief, the rejection on record fails providing a proper base as a denominator for calculating the dummy patterns' ratio. The calculation as provided in Answer's page 12, 1st paragraph, arbitrarily calculates the ratio by calculating every wiring's area with a constant L. Appellant respectfully submits that such arbitrarily selecting a constant L for all wirings as for the denominator is improper.

As illustrated in Zhang's Figs. 1 and 4, while Zhang's dummy wirings are confined within the proximity of the sealed region 107, Zhang's wirings 302 and 303 are extended to both sides of the sealed region 107. In other words, areas for Zhang's wirings 301/304 and 302/303 cannot/shouldn't be ascertained by a constant L as assumed in the Answer. Furthermore, the proper denominator for calculating Zhang's ratio for Zhang's dummy patterns' occupying area should not be limited within the sealed area 107 since the claim in the instant patent provides that dummy patterns is situated between the connection pads and pixel electrodes. Hence, Appellant respectfully submits that Zhang does not disclose the recited 30%, and the Office has not fulfilled the statutory required obligation of providing prima facie evidence in the rejection

on record. Hence, Appellant respectfully requests favorable determination based upon the above arguments and evidenced rationality.

Conclusion

Claims 1, 3, 5-9, 11, and 14-17 are pending in this application. In view of the reasons stated above, Appellant prays the board for a favorable decision and reversing the rejection on the record accordingly. A copy of claims 1, 3, 5-9, 11, and 14-17 is attached hereto as Claims Appendix.

Respectfully submitted,
WPAT, P.C.

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B. CLAIMS APPENDIX

1. An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

2. (Cancelled)

3. The array substrate for display according to claim 1 wherein the lower layer wiring material is selected from the group consisting of aluminum and aluminum alloys.

4. (Cancelled)

5. The array substrate for display according to claim 3 wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof.

6. The array substrate for display according to claim 5 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

7. The array substrate for display according to claim 1 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

8. The array substrate for display according to claim 5 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

9. A method for forming an array substrate for display, comprising:
 - forming a layer of an insulating substrate, having an area;

 - forming a thin film transistor array and a plurality of wirings on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

 - forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

 - forming pixel electrodes, and

forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

10. (Cancelled)

11. The method for forming an array substrate for display according to claim 9 wherein the lower layer wiring materials is selected from the group consisting of aluminum and aluminum alloys.

12. (Cancelled)

13. (Cancelled)

14. The method for forming an array substrate for display according to claim 9 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

15. The method for forming an array substrate for display according to claim 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

16. The method for forming an array substrate for display according to claim 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

17. An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 90/009,697
Filing Date : 03-16-2010
Applicant : Takatoshi Tsujimura
Assignee : AU Optronics Corp.
Art Unit : 3992
Examiner : Nguyen, Tuan H.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing **REPLY BRIEF** was served upon the following:

Song K. Jung

McKenna Long & Aldridge LLP

1900 K St., N.W.

Washington, DC 20006

by depositing a true and correct copy of the same with the U.S. Postal Service (via First Class mail service) with full postage prepaid.

March 24, 2014

Date

/Justin King/

Justin King, Reg. No. 50,464

Electronic Acknowledgement Receipt

| | |
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| EFS ID: | 18564263 |
| Application Number: | 90009697 |
| International Application Number: | |
| Confirmation Number: | 5947 |
| Title of Invention: | ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE |
| First Named Inventor/Applicant Name: | 6689629 |
| Customer Number: | 65358 |
| Filer: | Anthony King/Justin King |
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| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |



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90/009,697 03/16/2010 6689629 67507-008Re-exam 5947

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VIENNA, VA 22182

EXAMINER

NGUYEN, TUAN H

ART UNIT PAPER NUMBER

3992

MAIL DATE DELIVERY MODE

04/14/2014

PAPER

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VIENNA, VA 22182

Appeal No: 2014-005582
Application: 90/009,697
Appellant: Takatoshi Tsujimura, et al.

Patent Trial and Appeal Board Docketing Notice

Application 90/009,697 was received from the Technology Center at the Board on April 03, 2014 and has been assigned Appeal No: 2014-005582.

In all future communications regarding this appeal, please include both the application number and the appeal number.

The mailing address for the Board is:

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By order of the Patent Trial and Appeal Board.

CLU

cc: Third Party Requester
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1900 K STREET, NW
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NGUYEN, TUAN H

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05/28/2014

PAPER

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The time period for reply, if any, is set in the attached communication.

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Ex parte AU OPTRONICS CORPORATION
Patent Owner, Appellant

Appeal 2014-005582
Reexamination Control 90/009,697
Patent 6,689,629 B2
Technology Center 3900

Before JOSEPH L. DIXON, JAMES R. HUGHES, and ERIC S. FRAHM,
Administrative Patent Judges.

DIXON, *Administrative Patent Judge.*

DECISION ON APPEAL

STATEMENT OF CASE

Appellant appeals under 35 U.S.C. § 134 from the rejection of claims 1, 3, 5-9, 11, and 14-17. Claims 2, 4, 10, 12, and 13 are canceled. We have jurisdiction under 35 U.S.C. § 6(b).

We reverse.

The claims are directed to:

[A]n array substrate for display, a method of manufacturing the array substrate for display and a display device using the array substrate for display.

The present invention is an array substrate for display, which includes: a thin film transistor array formed on an insulating substrate 1; a plurality of wirings 23 and 24 arranged on the insulating substrate 1; connection pads 25 and 27 arranged on unilateral ends of the wirings 23 and 24 and respectively connected therewith; and pixel electrodes 22, wherein dummy conductive patterns 29 are arranged between the ends of the connection pads 25 and 27 and ends of the pixel electrodes 22.

(Abstract).

Claims 1 and 17, reproduced below, are illustrative of the claimed subject matter:

1. An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at

least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

17. An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

REFERENCES

The prior art relied upon by the Examiner in rejecting the claims on appeal is:

| | | |
|----------------|-----------------|---------------|
| Zhang | US 5,995,189 | Nov. 30, 1999 |
| Tsujimura '629 | US 6,689,629 B2 | Feb. 10, 2004 |

REJECTIONS

The Examiner made the following rejections:

Claims 1, 3, 5-9, 11, and 14-16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Zhang in view of the Tsujimura '629 Admitted Prior Art ("APA"). (Ans. 4).

Claim 17 is rejected under 35 U.S.C. § 102(b) as being anticipated by Zhang. (Ans. 8).

Appellant seeks our review of the above rejections.

ANALYSIS

In an *ex parte* appeal, the Board "is basically a board of review — we review . . . rejections made by patent examiners." *Ex parte Gambogi*, 62 USPQ2d 1209, 1211 (BPAI 2001). "The review authorized by 35 U.S.C. Section 134 is not a process whereby the examiner . . . invite[s] the [B]oard to examine the application and resolve patentability in the first instance." *Ex parte Braeken*, 54 USPQ2d 1110, 1112 (BPAI 1999).

Appellant begins its analysis with the obviousness rejection of independent claim 1 and addresses the independent claims together. (App. Br. 12). Since independent claim 17 is rejected based upon anticipation and is slightly broader, we address Appellant's arguments thereto. *See* 37 C.F.R.

§ 41.37(c)(1)(iv) (2012) (“When multiple claims subject to the same ground of rejection are argued as a group or subgroup by appellant, the Board may select a single claim from the group or subgroup and may decide the appeal as to the ground of rejection with respect to the group or subgroup on the basis of the selected claim alone.”).¹ *See also* MPEP Rev. 8, July 2010.

Anticipation

“A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference.” *Verdegaal Bros. v. Union Oil Co. of Calif.*, 814 F.2d 628, 631 (Fed. Cir. 1987). Analysis of whether a claim is patentable over the prior art under 35 U.S.C. § 102 begins with a determination of the scope of the claim. We determine the scope of the claims in patent applications not solely on the basis of the claim language, but upon giving claims their broadest reasonable construction in light of the specification as it would be interpreted by one of ordinary skill in the art. *In re Am. Acad. of Sci. Tech. Ctr.*, 367 F.3d 1359, 1364 (Fed. Cir. 2004). The properly interpreted claim must then be compared with the prior art.

“It is well settled that a prior art reference may anticipate when the claim limitations not expressly found in that reference are nonetheless inherent in it. Under the principles of inherency, if the prior art necessarily

¹ In the instant appeal, Appellant filed a Notice of Appeal on September 6, 2012. The date of filing of the Notice of Appeal determines which set of rules applies to an *Ex parte* appeal. If a notice of appeal is filed prior to January 23, 2012, then the 2004 version of the Board Rules last published in the 2011 edition of Title 37 of the Code of Federal Regulations (37 C.F.R. § 41.1 *et seq.*) applies to the appeal.

functions in accordance with, or includes, the claimed limitations, it anticipates.” *In re Cruciferous Sprout Litig.*, 301 F.3d 1343, 1349 (Fed. Cir. 2002) (citations and internal quotation marks omitted). “Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient.” *In re Robertson*, 169 F.3d 743, 745 (Fed. Cir. 1999) (citations and internal quotation marks omitted).

“[A] prima facie case of anticipation [may be] based on inherency” *In re King*, 801 F.2d 1324, 1327 (Fed. Cir. 1986). Once a prima facie case of anticipation has been established, the burden shifts to the Appellant to prove that the prior art product does not necessarily or inherently possess the characteristics of the claimed product. *In re Best*, 562 F.2d 1252, 1255 (CCPA 1977) (“Where, as here, the claimed and prior art products are identical or substantially identical, or are produced by identical or substantially identical processes, the PTO can require an applicant to prove that the prior art products do not necessarily or inherently possess the characteristics of his claimed product.”). *See also In re Spada*, 911 F.2d 705, 708 (Fed. Cir. 1990).

Appellant presents two arguments:

- A. The cited references do not disclose or teach that both dummy conductive patterns and wirings are on the same layer.
- B. The cited references do not disclose or teach the recited 30% area occupied by the dummy conductive patterns.

(App. Br. 12; Reply Br. 12).

With respect to Appellant's argument concerning the conductive patterns and wirings are on the "same layer," the Examiner maintains that the express claim language "does not require that the wirings and dummy patterns are both directly formed on and in contact to the insulating substrate as argued by the Appellant" and "is not commensurate in scope with the instant claims." (Ans. 10-11). We agree with the Examiner's claim interpretation and find Appellant's argument unpersuasive of error.

Furthermore, the Examiner maintains that Figures 4, 6, and column 9 and 10 of the Zhang reference teach the dummy wirings 301 and wirings 302 and 303 are on the same layer. We agree with the Examiner.

With respect to Appellant's second argument regarding the claimed "at least about 30% of the area of the insulating substrate," Appellant contends that the Examiner's position is in error. (Reply Br. 17). The Examiner maintains:

The area of dummy 304 of $30 \text{ microns} \times L / 50 \text{ microns} \times L$ (distance between wirings 301, 302, 303) + $10 \text{ microns} \times L$ (area of wiring 301 or 302 or 303) = $30/60$ which clearly shows the dummy 304 occupies at least 30% or more of the specified area (i.e. 50% in this case). The ratio of this portion is repeatedly the same over the other regions R1-R4 as shown in Figs. 4, 6.

(Ans. 12). Appellant contends that the Examiner's finding is in error since the proper base as the denominator arbitrarily calculates the ratio with a constant "L." (Reply Br. 17). Appellant contends "the proper denominator for calculating Zhang's ratio for Zhang's dummy patterns' occupying area should not be limited within the sealed area 107 since the claim in the instant patent provides that dummy patterns is [sic, are] situated between the

connection pads and pixel electrodes.” (Reply Br. 17). We agree with Appellant and find that the Examiner’s calculation of the “at least 30%” does *not necessarily* contain a constant length “L” for the plurality of wirings and dummy conductive patterns.

We find the Examiner paints with a broad brush in making the anticipation rejection and we are left to speculate as to the precise details of how the claim limitation is expressly or inherently described by figures and recited dimensions relied on by the Examiner, where the drawings are not necessarily to scale. We note that the Board is a reviewing body and not a place of initial examination. Moreover, it is our view that the more rigorous requirements of § 102 essentially require a one-for-one mapping of each argued limitation to the corresponding portion of the reference, which the Examiner must identify with particularity. Here, the Examiner has not made the requisite showing of the claimed “the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.” Therefore, we cannot sustain the anticipation rejection of independent claim 17.

Obviousness

With respect to the obviousness rejection of claims 1 and 9, the Examiner relies upon the same deficient calculation for the “at least about 30% of the area” and does not provide any separate line of reasoning for the obviousness rejection of claims 1 and 9. Therefore, we cannot sustain the

obviousness rejection of independent claims 1 and 9 and their respective dependent claims 3, 5-8, 11, and 14-16.

CONCLUSIONS

The Examiner erred in rejecting claim 17 based upon anticipation. The Examiner erred in rejecting claims 1, 3, 5-9, 11, and 14-16 based upon obviousness.

DECISION

For the above reasons, the Examiner's rejections of claims 1, 3, 5-9, 11, and 14-17 are reversed.

REVERSED

msc

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For Third Party Requester:

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Litigation Search Report CRU 3999

Reexam Control No. 90/089,697

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| TO: TUAN NGUYEN Location: CRU Art Unit: 3992 Date: 09/10/2014 | From: MANUEL SALDANA Location: CRU 3999 MDE 5D14 Phone: (571) 272-7740 MANUEL.SALDANA@uspto.gov |
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Search Notes

Litigation was found for US Patent Number: **6,689,629**

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|---|-----------|
| Au Optronics Corporation V. Lg.Philips Lcd Co. Ltd. Et Al | 1:07cv357 |
| AU Optronics Corporation v. Lg.philips LCD Co, Ltd | 3:07cv137 |

- 1) I performed a KeyCite Search in Westlaw, which retrieves all history on the patent including any litigation.
- 2) I performed a search on the patent in Lexis CourtLink for any open dockets or closed cases.
- 3) I performed a search in Lexis in the Federal Courts and Administrative Materials databases for any cases found.
- 4) I performed a search in Lexis in the IP Journal and Periodicals database for any articles on the patent.
- 5) I performed a search in Lexis in the news databases for any articles about the patent or any articles about litigation on this patent.

US District Court Civil Docket

U.S. District - Wisconsin Western
(Madison)

3:07cv137

Au Optronics Corporation v. Lg.Philips Lcd Co, Ltd

This case was retrieved from the court on Thursday, November 05, 2009

Date Filed: **03/08/2007** Class Code: **CLOSED**
Assigned To: **Judge John C Shabaz** Closed:
Referred To: **Magistrate Judge Crocker** Statute:
Nature of suit: **Patent (830)** Jury Demand: **Yes**
Cause: **PROPERTY RIGHTS; Patent** Demand Amount: **\$0**
Lead Docket: **none** NOS Description: **Patent**
Other Docket: **None**
Jurisdiction: **Federal Question**

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| Date | # | Proceeding Title |
|------------|----|---|
| 03/08/2007 | -- | NORTC - FEE PAID. |
| 03/08/2007 | 1 | JS-44 |
| 03/08/2007 | 2 | COMPLAINT - SUMMONS ISSUED. |
| 03/08/2007 | 3 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY PLTF. |
| 03/15/2007 | 4 | SUMMONS |
| 03/29/2007 | 5 | NOTICE OF APPEARANCE BY JAMES PETERSON, BRADY WILLIAMSON, GASPARE BONO AND TYLER GOODWYN FOR DEFTS. |
| 03/29/2007 | 6 | MOTION TO DISMISS BY DEFTS. |
| 03/29/2007 | 7 | BRIEF IN SUPPORT OF DEFTS. MOTION TO DISMISS. |
| 03/29/2007 | 8 | AFFIDAVIT OF DONG HOON HAN. |
| 03/29/2007 | 9 | MOTION TO ADMIT GASPARE J. BONO PRO HAC VICE. |
| 03/29/2007 | 10 | MOTION TO ADMIT TYLER GOODWYN PRO HAC VICE. |
| 03/29/2007 | 11 | AFFIDAVIT OF JAMES D. PETERSON IN SUPPORT OF MOTION TO ADMIT GASPARE J. BONO PRO HAC VICE. |
| 03/29/2007 | 12 | AFFIDAVIT OF JAMES D. PETERSON IN SUPPORT OF MOTION TO ADMIT TYLER GOODWYN PRO HAC VICE. |
| 04/02/2007 | 13 | ORDER ADMITTING GASPARE BONO PRO HAC VICE. |
| 04/02/2007 | 14 | ORDER ADMITTING R. TYLER GOODWYN PRO HAC VICE. |
| 04/03/2007 | 15 | MOTION TO ADMIT ATTYS. M.TYLER, B.RANGE, B.DIETZEL, J.CHEN, R.SHULMAN AND S.BAIK PRO HAC VICE. |
| 04/03/2007 | 16 | AFFIDAVIT OF JAMES R. TROUPIS. |
| 04/03/2007 | 17 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY DEFT. LG.PHILIPS LTD. |
| 04/03/2007 | 18 | DISCLOSURE OF CORP. AFFIL. & FINAN. INT. BY DEFT. LG.PHILIPS AMERICA. |
| 04/04/2007 | 19 | ORDER ADMITTING M.TYLER, B.RANGE, B.DIETZEL, J.CHEN, R.SHULMAN AND S.BAIK PRO HAC VICE. |
| 04/16/2007 | 20 | PPTC REPORT BY PLTF. |
| 04/16/2007 | 21 | PPTC REPORT BY DEFTS. |

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| 04/16/2007 | 22 | MOTION BY DEFTS. TO TRANSFER TO DISTRICT OF DELAWARE. |
| 04/16/2007 | 23 | BRIEF IN SUPPORT OF DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. |
| 04/16/2007 | 24 | AFFIDAVIT OF R. TYLER GOODWYN. |
| 04/17/2007 | 25 | EXHIBIT 1 TO AFFIDAVIT OF DONG HOON HAN FILED 3/29/07. |
| 04/17/2007 | 26 | WAIVER OF SERVICE OF SUMMONS BY DEFT. LG.PHILIPS LTD. |
| 04/18/2007 | 27 | BRIEF IN OPPOSITION BY PLTF. TO DEFTS. MOTION TO DISMISS. |
| 04/18/2007 | 28 | AFFIDAVIT OF DAVID W. PANNECK. |
| 04/18/2007 | 29 | AFFIDAVIT OF MICHAEL LESTINA. |
| 04/19/2007 | 30 | PTC ORDER - AMENDMENTS TO PLEADINGS DUE 5/15/07; DISPOSITIVE MOTIONS DUE 7/30/07. |
| 04/30/2007 | 31 | BRIEF IN REPLY IN SUPPORT OF DEFTS. MOTION TO DISMISS. |
| 04/30/2007 | 32 | AFFIDAVIT OF DONG HOON HAN (SUPPLEMENTAL). |
| 05/02/2007 | 33 | MOTION BY PLTF. TO ADMIT JAMES C. YOON AND JULIE HOLLOWAY PRO HAC VICE. |
| 05/02/2007 | 34 | AFFIDAVIT OF JAMES R. TROUPIS. |
| 05/03/2007 | 35 | ORDER ADMITTING JAMES YOON AND JULIE HOLLOWAY PRO HAC VICE. |
| 05/03/2007 | 36 | BRIEF IN REPLY (CORRECTED) IN SUPPORT OF DEFT. LG PHILIPS LCD AMERICA MOTION TO DISMISS. |
| 05/07/2007 | 37 | BRIEF IN OPPOSITION BY PLTF. TO DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. |
| 05/07/2007 | 38 | AFFIDAVIT OF PAUL BARBATO. |
| 05/07/2007 | 39 | AFFIDAVIT OF ARIS K. SILZARS. |
| 05/17/2007 | 40 | BRIEF IN REPLY IN SUPPORT OF DEFTS. MOTION TO TRANSFER TO DISTRICT OF DELAWARE. |
| 05/18/2007 | 41 | MOTION BY PLTF. TO COMPEL DEFT. LG PHILIPS LCD AMERICA TO RESPOND TO REQ. FOR PROD. OF INTERROGS. |
| 05/18/2007 | 42 | BRIEF IN SUPPORT OF PLTF. MOTION TO COMPEL. |
| 05/18/2007 | 43 | AFFIDAVIT OF JAMES R. TROUPIS. |
| 05/18/2007 | 44 | AFFIDAVIT (2ND) OF DAVID W. PANNECK. |
| 05/22/2007 | 45 | BRIEF IN OPPOSITION BY DEFTS. TO PLTF. MOTION TO COMPEL. |
| 05/22/2007 | 46 | AFFIDAVIT OF NICOLE TALBOTT SETTLE. |
| 05/23/2007 | -- | TELE. MOTION HEARING SET ON # 41 FOR 5/30/07, 8:30 AM. |
| 05/24/2007 | -- | RECD. PROPOSED PROTECTIVE ORDER; FORWARDED TO CHAMBERS. |
| 05/29/2007 | 47 | JOINT RULE 26 REPORT. |
| 05/30/2007 | 48 | PROTECTIVE ORDER |
| 05/30/2007 | 49 | ORDER TRANSFERRING CASE TO DISTRICT OF DELAWARE. |
| 06/01/2007 | -- | RECORD SENT TO DISTRICT OF DELAWARE. |
| 07/21/2008 | -- | Further docketing is in CM/ECF at pacer.wiwd.uscourts.gov |

US District Court Civil Docket

U.S. District - Delaware
(Wilmington)

1:07cv357

Au Optronics Corporation v. Lg.Philips Lcd Co. Ltd. et al

This case was retrieved from the court on Tuesday, April 02, 2013

Date Filed: **06/06/2007** Class Code: **CLOSED**
Assigned To: **Judge Leonard P. Stark** Closed: **Yes**
Referred To: Statute: **35:271**
Nature of suit: **Patent (830)** Jury Demand: **Defendant**
Cause: **Patent Infringement** Demand Amount: **\$0**
Lead Docket: **1:06cv00726** NOS Description: **Patent**
Other Docket: **1:06cv00726**
1:08cv00355
1:10cv00706
USDC/WD/WI, 07-C-137
Jurisdiction: **Federal Question**

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| DATE | DI # | DESCRIPTION |
|------------|------|--|
| 06/06/2007 | 49 | Record of case transferred in from District of Wisconsin(Western); Case Number in Other District: 07-C-137. Copy of Docket Sheet and original file with documents numbered 1-49 attached. (Attachments: # 1 DI # 1# 2 DI # 2# 3 Exhibit A to DI # 2# 4 Exhibit B to DI # 2# 5 Exhibit C to DI # 2# 6 DI # 3# 7 DI # 4# 8 DI # 5# 9 DI # 6# 10 DI # 7# 11 DI # 8# 12 DI # 9# 13 DI # 10# 14 DI # 11# 15 DI # 12# 16 DI # 13# 17 DI # 14# 18 DI # 15# 19 DI # 16# 20 DI # 17# 21 DI # 18# 22 DI # 19# 23 DI # 20# 24 DI # 21# 25 DI # 22# 26 DI # 23# 27 DI # 24- SEALED DOCUMENT# 28 DI # 25# 29 DI # 26# 30 DI # 27# 31 DI # 28# 32 DI # 29# 33 Exhibit A to DI # 29# 34 Exhibit B to DI # 29# 35 Exhibit C to DI # 29# 36 Exhibit D to DI # 29# 37 Exhibit E to DI # 29# 38 DI # 30# 39 DI # 31# 40 DI # 32- SEALED DOCUMENT# 41 DI # 33# 42 DI # 34# 43 DI # 35# 44 DI # 36# 45 DI # 37# 46 DI # 38# 47 DI # 39# 48 Exhibit A to DI # 39# 49 DI # 40# 50 DI # 41# 51 DI # 42# 52 DI # 43# 53 DI # 44# 54 DI # 45# 55 DI # 46# 56 Exhibit A to DI # 46# 57 Exhibit B to DI # 46# 58 DI # 47# 59 DI # 48# 60 DI # 49)(ead) (Entered: 06/08/2007) |
| 06/06/2007 | | Order granting Motion To Transfer matter to U.S. District Court for the District of Delaware, signed by Judge Shabaz on 5/30/07 in U.S.D.C., Wisconsin(Western) - DI # in other district: 49. (ead) (Entered: 06/08/2007) |
| 06/06/2007 | 50 | COMPLAINT filed against LG.Philips LCD Co. Ltd., LG.Philips LCD America - - filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 3/8/07 as DI # 2)(Attachments: # 1 Civil Cover Sheet)(ead) (Entered: 06/08/2007) |
| 06/06/2007 | 51 | MOTION to Dismiss for Improper Venue - filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI # 6) (ead) (Entered: 06/08/2007) |
| 06/06/2007 | 52 | OPENING BRIEF in Support re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD |

America. (Filed in USDC/WD/WI on 3/29/07 as DI # 7) (ead) (Entered: 06/08/2007)

06/06/2007 53 AFFIDAVIT of Dong Hoon Han- filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 3/29/07 as DI # 8)(ead) (Entered: 06/08/2007)

06/06/2007 54 ANSWERING BRIEF in Opposition re 51 MOTION to Dismiss for Improper Venue filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 4/18/07 as DI # 27) (ead) (Entered: 06/08/2007)

06/06/2007 55 REPLY BRIEF re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 4/30/07 as DI # 31)(ead) (Entered: 06/08/2007)

06/06/2007 56 REPLY BRIEF re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. CORRECTED (Filed in USDC/WD/WI on 5/3/07 as DI # 36) (ead) (Entered: 06/08/2007)

06/06/2007 57 MOTION to Compel LG.Philips LCD America to Respond to Requests for Production and Interrogatories and for Other Relief - filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI # 41) (ead) (Entered: 06/08/2007)

06/06/2007 58 OPENING BRIEF in Support re 57 MOTION to Compel filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI # 42) (ead) (Entered: 06/08/2007)

06/06/2007 59 AFFIDAVIT of James R. Troupis re 57 MOTION to Compel filed by AU Optronics Corporation. (Filed in USDC/WD/WI on 5/18/07 as DI # 43) (ead) (Entered: 06/08/2007)

06/06/2007 60 AFFIDAVIT of David W. Panneck re 57 MOTION to Compel filed by AU Optronics Corporation. (Attachments: # 1 Notice of Filing of Papaer Documents- Exhibits A-G) (Filed in USDC/WD/WI on 5/18/07 as DI # 44)(ead) (Entered: 06/08/2007)

06/06/2007 61 ANSWERING BRIEF in Opposition re 57 MOTION to Compel filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 5/22/07 as DI # 45) (ead) (Entered: 06/08/2007)

06/06/2007 62 AFFIDAVIT of Nicole Talbott Settle re 61 Answering Brief in Opposition filed by LG.Philips LCD America. (Filed in USDC/WD/WI on 5/22/07 as DI # 46) (ead) (Entered: 06/08/2007)

06/06/2007 63 NOTICE of filing the following document(s) in paper format: Exhibits A-T to Declaration of David W. Panneck (DI # 28 Filed in USDC/WD/WI on 4/18/07)). Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation. (ead) (Entered: 06/08/2007)

06/06/2007 64 NOTICE of filing the following document(s) in paper format: Exhibits A-W to Declaration of Paul Barbato. (DI # 38 Filed in USDC/WD/WI on 5/7/07) Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation. (ead) (Entered: 06/08/2007)

06/06/2007 65 NOTICE of filing the following document(s) in paper format: Exhibits A-G to Declaration of David W. Panneck. (Filed as DI # 44 in USDC/WD/WI on 5/18/07) Original document(s) on file in Clerk's Office. Notice filed by AU Optronics Corporation (ead) (Entered: 06/08/2007)

06/08/2007 66 Local Counsel Letter sent to James D. Peterson.Notice of Compliance deadline set for 7/12/2007. (ead) (Entered: 06/08/2007)

06/08/2007 67 Local Counsel Letter sent to James P. Troupis. Notice of Compliance deadline set for 7/12/2007. (ead) (Entered: 06/08/2007)

06/08/2007 68 Report to the Commissioner of Patents and Trademarks for Patent/Trademark Number(s) 6,689,629; 6,976,781; 6,778,160; (ead) (Entered: 06/08/2007)

06/08/2007 69 SEALED AFFIDAVIT of R. Tyler Goodwyn in Support of LG.Philips LCD Co. Ltd's Motion to Transfer to the District of Delaware filed by LG.Philips LCD Co. Ltd. (Filed in USDC/WD/WI on 4/16/07 as DI # 24) (ead) (Entered: 06/08/2007)

06/08/2007 70 SEALED AFFIDAVIT of Dong Hoon Han in Support of LG.Philips LCD America's Motion to Dismiss re 51 MOTION to Dismiss for Improper Venue filed by LG.Philips LCD America. (ead) (Entered: 06/08/2007)

06/08/2007 71 NOTICE of Appearance by Richard D. Kirk on behalf of LG.Philips LCD Co. Ltd., LG.Philips LCD America (Kirk, Richard) (Entered: 06/08/2007)

06/11/2007 72 ANSWER to Complaint with Jury Demand, COUNTERCLAIM against AU Optronics Corporation by LG.Philips LCD America. (Attachments: # 1 Certificate of Service)(Kirk, Richard) (Entered: 06/11/2007)

06/11/2007 73 ANSWER to Complaint with Jury Demand, COUNTERCLAIM against AU Optronics Corporation America, Chi Mei Optoelectronics Corporation, CHI MEI OPTOELECTRONICS USA, INC., AU Optronics Corporation by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A# 2 Exhibit B# 3 Exhibit C# 4 Certificate of Service)(Kirk, Richard) (Entered: 06/11/2007)

06/12/2007 74 PRAECIPE filed by Richard D. Kirk on behalf of LG.Philips LCD Co. Ltd. requesting Clerk to issue Summonses (Attachments: # 1 Certifidate of Service)(Kirk, Richard) (Entered: 06/12/2007)

06/12/2007 Summons Issued as to AU Optronics Corporation America on 6/12/2007; CHI MEI OPTOELECTRONICS USA, INC. on 6/12/2007. (eew) (Entered: 06/12/2007)

06/13/2007 Summons Issued as to Chi Mei Optoelectronics Corporation on 6/13/2007. (eew) (Entered: 06/13/2007)

06/14/2007 75 Return of Service Executed by LG.Philips LCD Co. Ltd.. CHI MEI OPTOELECTRONICS USA, INC. served on 6/12/2007, answer due 7/2/2007. (Kirk, Richard) (Entered: 06/14/2007)

06/14/2007 76 NOTICE OF SERVICE OF ANSWER TO COMPLAINT WITH COUNTERCLAIMS ON DEFENDANT CHI MEI OPTOELECTRONICS CORPORATION PURSUANT TO 10 DEL.C. SECTION 3104 by LG.Philips LCD Co. Ltd. (Kirk, Richard) (Entered: 06/14/2007)

06/14/2007 77 NOTICE OF SERVICE OF ANSWER TO COMPLAINT WITH COUNTERCLAIMS ON DEFENDANT AU OPTRONICS CORPORATION AMERICA A/K/A AU OPTRONICS AMERICA, INC. PURSUANT TO 10 DEL.C.SECTION 3104 by LG.Philips LCD Co. Ltd. (Kirk, Richard) (Entered: 06/14/2007)

06/18/2007 78 NOTICE of Appearance by Ashley Blake Stitzer on behalf of LG.Philips LCD Co. Ltd., LG.Philips LCD America (Stitzer, Ashley) (Entered: 06/18/2007)

06/18/2007 79 NOTICE OF SERVICE of LG. PHILIPS LCD'S OBJECTIONS TO AU OPTRONICS CORPORATION'S SECOND SET OF INTERROGATORIES (NO. 17) by LG.Philips LCD Co. Ltd.(Stitzer, Ashley) (Entered: 06/18/2007)

06/21/2007 80 ANSWER to Counterclaim, COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation America.(Pascale, Karen) (Entered: 06/21/2007)

06/21/2007 81 ANSWER to Counterclaim of LG.Philips LCD Co., LTD., COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation. (Attachments: # 1 Exhibit A-C)(Pascale, Karen) (Entered: 06/21/2007)

06/21/2007 82 ANSWER to Counterclaim of LG.Philips LCD America, Inc., COUNTERCLAIM against LG.Philips LCD America by AU Optronics Corporation. (Attachments: # 1 Exhibit A-C)(Pascale, Karen) (Entered: 06/21/2007)

06/26/2007 83 Joint MOTION to Consolidate Cases - filed by AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America. (Attachments: # 1 Text of Proposed Order Of Consolidation# 2 Certificate of Compliance Local Rule 7.1.1 Statement)(Pascale, Karen) (Entered: 06/26/2007)

06/26/2007 84 NOTICE of Joint Motion To Consolidate by AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America re 83 MOTION to Consolidate Cases (Pascale, Karen) (Entered: 06/26/2007)

06/26/2007 85 Joint STATEMENT re 83 MOTION to Consolidate Cases, 84 Notice (Other) Following Transfer Pursuant To Local Rule 81.2 by AU Optronics Corporation, LG.Philips LCD Co. Ltd., LG.Philips LCD America. (Pascale, Karen) (Entered: 06/26/2007)

06/29/2007 86 NOTICE OF SERVICE of LG. PHILIPS LCD CO., LTD.'S OBJECTIONS TO AU OPTRONICS CORPORATION'S SECOND SET OF DOCUMENTS REQUESTS (NOS. 143-152) by LG.Philips LCD Co. Ltd..(Stitzer, Ashley) (Entered: 06/29/2007)

07/02/2007 87 ANSWER to Counterclaim, COUNTERCLAIM CHI MEI OPTOELECTRONICS USA, INC.'S ANSWER, AFFIRMATIVE DEFENSES AND COUNTERCLAIMS TO THE COUNTERCLAIMS OF LG. PHILIPS LCD CO., LTD. against LG.Philips LCD Co. Ltd. by CHI MEI OPTOELECTRONICS USA, INC..(Rovner, Philip) (Entered: 07/02/2007)

07/03/2007 88 MOTION for Pro Hac Vice Appearance of Attorney M. Craig Tyler, Brian D. Range and Julie M. Holloway - filed by AU Optronics Corporation America, AU Optronics Corporation. (Pascale, Karen) (Entered: 07/03/2007)

07/05/2007 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person, MOTION to Dismiss for Insufficiency of

Service of Process - filed by Chi Mei Optoelectronics Corporation. (Rovner, Philip) (Entered: 07/05/2007)

07/05/2007 Set Briefing Schedule: re 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person MOTION to Dismiss for Insufficiency of Service of Process. Answering Brief due 7/23/2007. (lec) (Entered: 07/06/2007)

07/06/2007 90 Joint MOTION to Consolidate Cases - filed by LG. Philips LCD America, Inc., AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd.. (Pascale, Karen) (Entered: 07/06/2007)

07/06/2007 91 Joint NOTICE of Motion (Re-Notice) and Withdrawal of Motion by LG. Philips LCD America, Inc., AU Optronics Corporation America, AU Optronics Corporation, LG.Philips LCD Co. Ltd. re 92 Joint MOTION to Consolidate Cases, 90 MOTION to Consolidate Cases (Pascale, Karen) (Entered: 07/06/2007)

07/10/2007 92 Amended ANSWER to Counterclaim of LG. Philips LCD Co. Ltd., COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation America.(Pascale, Karen) (Entered: 07/10/2007)

07/10/2007 93 Amended ANSWER to Counterclaim of LG.Philips LCD Co. Ltd., COUNTERCLAIM against LG.Philips LCD Co. Ltd. by AU Optronics Corporation. (Attachments: # 1 Exhibit A - C)(Pascale, Karen) (Entered: 07/10/2007)

07/10/2007 SO ORDERED D.I. 88 MOTION for Pro Hac Vice Appearance of Attorney M. Craig Tyler, Brian D. Range and Julie M. Holloway filed by AU Optronics Corporation, AU Optronics Corporation America. Signed by Judge Joseph J. Farnan, Jr. on 7/10/2007. (lec) (Entered: 07/10/2007)

07/11/2007 ORAL ORDER re 57 MOTION to Compel filed by AU Optronics Corporation. This motion will be decided after a decision has been rendered on the pending Motion to Consolidate. Therefore, the Notice for the Motion Day Hearing of July 13, 2007 is cancelled. Ordered by Judge Joseph Farnan this 11th day of July, 2007. (dlk) (Entered: 07/11/2007)

07/11/2007 94 ANSWER to Counterclaim filed by AU Optronics Corporation by LG.Philips LCD America.(Kirk, Richard) (Entered: 07/11/2007)

07/12/2007 95 NOTICE of Withdrawal of Motion to Compel LG.Philips LCD America to Respond to Requests for Production and Interrogatories and for Other Relief by AU Optronics Corporation re 57 MOTION to Compel (Pascale, Karen) (Entered: 07/12/2007)

07/16/2007 96 Disclosure Statement pursuant to Rule 7.1 filed by AU Optronics Corporation, AU Optronics Corporation America. (Pascale, Karen) (Entered: 07/16/2007)

07/19/2007 97 Disclosure Statement pursuant to Rule 7.1 filed by Chi Mei Optoelectronics Corporation identifying CHI MEI CORPORATION as Corporate Parent. (Rovner, Philip) (Entered: 07/19/2007)

07/19/2007 98 Disclosure Statement pursuant to Rule 7.1 filed by CHI MEI OPTOELECTRONICS USA, INC. identifying CMO JAPAN CO., LTD. as Corporate Parent. (Rovner, Philip) (Entered: 07/19/2007)

07/19/2007 99 ANSWERING BRIEF in Opposition re 89 MOTION to Dismiss for Lack of Jurisdiction Over the Person MOTION to Dismiss for Insufficiency of Service of Process filed by LG.Philips LCD America, LG.Philips LCD Co. Ltd..Reply Brief due date per Local Rules is 7/30/2007. (Attachments: # 1 Certificate of Service)(Stitzer, Ashley) (Entered: 07/19/2007)

07/19/2007 100 ORDER GRANTING D.I. 90 Motion to Consolidate Cases. This case is consolidated into Civil Action No. 06-726-GMS. All future filings shall be captioned and filed only in the consolidated lead case. Signed by Judge Joseph J. Farnan, Jr. on 07/19/2007. (dlk) (Entered: 07/23/2007)

07/19/2007 Case associated with lead case: Create association to 1:06-cv-00726-GMS. (dlk) (Entered: 07/23/2007)

07/23/2007 Case reassigned to Judge Gregory M. Sleet. Please include the initials of the Judge (GMS) after the case number on all documents filed. (Please note all future filings shall still be captioned and filed only in the consolidated lead case 1:06-cv-00726) (rjb) (Entered: 07/23/2007)

07/23/2007 101 ANSWER to Counterclaim of defendant Chi Mei Optoelectronics USA, Inc. by LG.Philips LCD America. (Attachments: # 1 certificate of service)(Kirk, Richard) (Entered: 07/23/2007)

07/24/2007 102 ANSWER to Counterclaim OF AU OPTRONICS CORPORATION AMERICA, COUNTERCLAIM against AU Optronics Corporation America by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A)(Kirk, Richard) (Entered: 07/24/2007)

07/24/2007 103 ANSWER to Counterclaim OF AU OPTRONICS CORPORATION, COUNTERCLAIM against AU Optronics Corporation by LG.Philips LCD Co. Ltd.. (Attachments: # 1 Exhibit A)(Kirk, Richard) (Entered: 07/24/2007)

09/28/2007 104 NOTICE of AU Optronics Corporation's Reply to LG.Philips LCD Co., Ltd's Additional Counterclaims by AU Optronics Corporation re 138 Answer to Counterclaim (Pascale, Karen) (Entered: 09/28/2007)

12/14/2007 Case reassigned to Judge Joseph J. Farnan, Jr. Please include the initials of the Judge (JJF) after the case number on all documents filed. (rjb) (Entered: 12/14/2007)

03/13/2008 CORRECTING ENTRY: Amended the party name for plaintiff and counterclaim plaintiff LG. Philips LCD Co., LTD to LG Display Co., Ltd., per DI # 161 ;and amended defendant and counterclaim plaintiff LG. Philips LCD America, Inc. to LG Display America, Inc., per DI # 161 . Also confirmed with counsel as to how the amended caption to read. (nms) (Entered: 03/13/2008)

03/28/2008 105 NOTICE of Service of AU Optronics Corporation's First Set of Requests for Production of Documents and Things to LG Display Co., Ltd., Nos. 1-110; AU Optronics Corporation's Second Set of Requests for Production of Documents to LG Display Co., Ltd. (Nos. 111-208); AU Optronics Corporation's First Set of Interrogatories to LG Display Co., Ltd. (Nos. 1-13), AU Optronics Corporation's Second Set of Interrogatories to LG Display Co., Ltd. (Nos. 14-23), and AU Optronics Corporation's Notice of Rule 30(b)(6) Deposition of Plaintiff LG Display Co. Ltd. by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation re (1 in 1:06-cv-00726-JJF) Complaint, (Keller, Karen) (Entered: 03/28/2008)

04/16/2008 106 TRANSCRIPT of Status Telephone Conference held on 2/14/2008 before Judge Farnan. Court Reporter: Dale C. Hawkins (Hawkins Reporting). (Transcript on file in Clerk's Office) (nms) (Entered: 04/16/2008)

04/25/2008 107 NOTICE OF SERVICE of Defendant AU Optronics Corporation's Objections and Responses to Plaintiff LG Display Co., Ltd.'s First Set of Interrogatories (Nos. 1-19); and Defendant AU Optronics Corporation's Objections and Responses to Plaintiff LG Display Co., Ltd.'s First Set of Requests for the Production of Documents and Things (Nos. 1-83) by AU Optronics Corporation.(Pascale, Karen) (Entered: 04/25/2008)

05/01/2008 108 Letter to The Honorable Mary Pat Thyng from Karen L. Pascale regarding production of license agreements - re (191 in 1:06-cv-00726-JJF) Letter. (Pascale, Karen) (Entered: 05/01/2008)

06/23/2008 109 NOTICE OF SERVICE of LG Display Co., Ltd.'s Objections and Responses to Attachment A to AU Optronics Corporation's Notice of Rule 30(b)(6) Deposition by LG Display Co., Ltd.. (Attachments: # 1 Certificate of Service)(Kirk, Richard) (Entered: 06/23/2008)

07/17/2008 110 NOTICE OF SERVICE of AU Optronics Corporations Responses and Objections to Plaintiff LG Display Co., Ltd.s Second Set of Interrogatories (Nos. 20-29); and AU Optronics Corporations Supplemental Objections and Responses to Plaintiff LG Display Co., Ltd.s First Set of Interrogatories (Nos. 1-19) by AU Optronics Corporation.(Pascale, Karen) (Entered: 07/17/2008)

07/30/2008 ORAL ORDER: LG Display Co., Ltd. shall file a response to the July 30, 2008 letter (D.I. 364 in 06-726) by Chi Mei Optoelectronics Corp. no later than 9:00 a.m. on July 31, 2008. Ordered by Judge Joseph J. Farnan, Jr. on 7/30/2008. (dlk) (Entered: 07/30/2008)

09/08/2008 ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding MOTION to Consolidate Cases filed by LG Display Co., Ltd., MOTION for Leave to File Second Amended Answer to AU Optronics Corporation's Amended Counterclaims and Additional Counterclaims filed by LG Display Co., Ltd., and the MOTION to Consolidate Cases DEFENDANT CHI MEI OPTOELECTRONICS CORPORATION'S MOTION TO CONSOLIDATE AND TO EXTEND DISCOVERY LIMITS filed by Chi Mei Optoelectronics Corporation. The motions will be decided on the papers submitted. Ordered by Judge Joseph J. Farnan, Jr. on 09/08/2008. (dlk) (Entered: 09/08/2008)

09/08/2008 ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding the CHI MEI OPTOELECTRONICS CORPORATION'S MOTION TO LIMIT THE NUMBER OF PATENTS-IN-SUIT AND STAY THE REMAINDER filed by Chi Mei Optoelectronics Corporation. A decision is deferred pending possible oral argument. Ordered by Judge Joseph J. Farnan, Jr. on 9/8/08. (dlk) (Entered: 09/08/2008)

09/08/2008 ORAL ORDER: The September 12, 2008 Motion Day Hearing is CANCELLED regarding Motion to Compel Chi Mei Optoelectronics Corporation to Provide Discovery filed by LG Display Co., Ltd., PLAINTIFFS CHI MEI OPTOELECTRONICS' MOTION TO COMPEL DEFENDANTS LG DISPLAY TO RESPOND TO INTERROGATORIES filed by Chi Mei Optoelectronics USA Inc.(D.I. 98 in 08-cv-00355-JJF), Chi Mei Optoelectronics Corporation, and DEFENDANTS CHI MEI

OPTOELECTRONICS' MOTION TO COMPEL PLAINTIFFS LG DISPLAY TO PRODUCE DOCUMENTS
RESPONSIVE TO DOCUMENT REQUEST NO. 98 filed by Chi Mei Optoelectronics Corporation. The
Court will decide these motions on the papers submitted. Ordered by Judge Joseph J. Farnan, Jr. on
9/8/08. (dlk) (Entered: 09/08/2008)

- 11/20/2008 111 MOTION for Leave to File A First Amended Answer and Joinder In CMO's Motion For Leave To File A First Amended Answer - filed by AU Optronics Corporation America, AU Optronics Corporation. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Local Rule 7.1.1 Statement)(Lundgren, Andrew) (Entered: 11/20/2008)
- 11/20/2008 112 NOTICE OF MOTION by AU Optronics Corporation America, AU Optronics Corporation re 111 MOTION for Leave to File ; Requesting the following Motion Day: December 19, 2008 (Lundgren, Andrew) Modified on 11/25/2008 (nms). (Entered: 11/20/2008)
- 12/04/2008 113 Amended NOTICE of [AUO's Amended Notice of Subpoena And Deposition to Centric Technical Sales on December 17, 2008] by AU Optronics Corporation America, AU Optronics Corporation re (234 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 114 Amended NOTICE of Subpoena And Deposition to Bell Microproducts, Inc. on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (230 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 115 Amended NOTICE of Subpoena And Deposition to Axis Group, Inc. on December 17, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (229 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 116 Amended NOTICE of Subpoena And Deposition to Avnet, Inc on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (228 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 117 Amended NOTICE of Subpoena And Deposition to Philips Electronics N.A., Inc. on December 17, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (344 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 118 Amended NOTICE of Subpoena And Deposition to LG Electronics Alabama, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (341 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 119 Amended NOTICE of Subpoena And Deposition to LG Electronics USA, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (342 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 120 Amended NOTICE of Subpoena And Deposition to LG Infocomm, Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (340 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 121 Amended NOTICE of Subpoena And Deposition to LG International (America), Inc. on December 15, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (357 in 1:06-cv-00726-JJF) Notice (Other) (Pascale, Karen) (Entered: 12/04/2008)
- 12/04/2008 122 Amended NOTICE of Subpoena And Deposition to Catalyst Sales, Inc. on December 16, 2008 by Au Optronics Corporation, AU Optronics Corporation America re (233 in 1:06-cv-00726-JJF) Notice of Service (Pascale, Karen) (Entered: 12/04/2008)
- 12/08/2008 ORAL ORDER: The Court has reviewed the parties numerous email submissions regarding discovery disputes; therefore, Counsel shall appear for the December 19, 2008 Motion Day Hearing at 10:00 AM in Courtroom 4B before Judge Joseph J. Farnan, Jr. regarding these disputes. The non-prevailing party will be assessed all fees and costs associated with these disputes. Ordered by Judge Joseph J. Farnan, Jr. on 12/8/2008. (dlk) (Entered: 12/08/2008)
- 12/08/2008 CORRECTING ENTRY: The 12/8/2008 Oral Order has been corrected to note that the non-prevailing party will be assessed fees and costs associated with email discovery dispute. Associated Cases: 1:07-cv-00357-JJF, 1:06-cv-00726-JJF(dlk) (Entered: 12/08/2008)
- 12/12/2008 123 NOTICE of [AUO's Notice of Withdrawal of Amended Notice of Subpoena and Deposition of Philips Electronics N.A., Inc.] by AU Optronics Corporation America, AU Optronics Corporation re (117 in 1:07-cv-00357-JJF, 731 in 1:06-cv-00726-JJF) Notice (Other) (Lundgren, Andrew) (Entered: 12/12/2008)
- 12/22/2008 ORAL ORDER: The Court GRANTS parties Motions To Consolidate (D.I. 298 in 1:06-cv-00726-JJF,

D.I. 89 in 1:08-cv-00355-JJF) and (D.I. 295 in 1:06-cv-00726-JJF). Accordingly, all future filings shall be made and captioned under C.A. No. 06-726 only.. Ordered by Judge Joseph J. Farnan, Jr. on 12/19/2008. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 12/22/2008)

- 12/22/2008 Case associated with lead case: Create association to 1:06-cv-00726-JJF. Associated Cases: 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 12/22/2008)
- 01/23/2009 ORAL ORDER: LG's "motion" regarding 30(b)(6) depositions per Mr. Kirk's January 16, 2009 e-mail request is DENIED. CMO's e-mail request for 30(b)(6) deposition, per Mr. Rovner's January 21, 2009 e-mail is GRANTED.. Signed by Judge Joseph J. Farnan, Jr. on 1/22/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(dlk) (Entered: 01/23/2009)
- 02/27/2009 124 Joint Stipulation of Authenticity As To Certain Documents by CHI MEI OPTOELECTRONICS USA, INC., Chi Mei Optoelectronics Corporation, Au Optronics Corporation, AU Optronics Corporation America, LG Display Co. Ltd., LG Display America Inc.. (Pascale, Karen) Modified on 3/3/2009 (nms). (Entered: 02/27/2009)
- 03/03/2009 SO ORDERED, re (124 in 1:07-cv-00357-JJF, 1019 in 1:06-cv-00726-JJF, 106 in 1:08-cv-00355-JJF) Joint Stipulation of Authenticity as to Certain Documents, filed by LG Display America Inc., LG Display Co. Ltd., CHI MEI OPTOELECTRONICS USA, INC., AU Optronics Corporation America, Au Optronics Corporation, Chi Mei Optoelectronics Corporation. Signed by Judge Joseph J. Farnan, Jr. on 3/3/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF, 1:08-cv-00355-JJF(nms) (Entered: 03/03/2009)
- 03/09/2009 125 NOTICE OF SERVICE of Expert Report of Jonathan D. Putnam by Au Optronics Corporation, AU Optronics Corporation America.(Pascale, Karen) (Entered: 03/09/2009)
- 03/09/2009 126 NOTICE OF SERVICE of Expert Report of Dr. Aris K. Silzars on Infringement of AUO's Asserted '781, '160, '157, '506 and '069 Patents by LGD's Accused Products by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation.(Pascale, Karen) (Entered: 03/09/2009)
- 03/09/2009 127 NOTICE OF SERVICE of Report of Expert Abbie Gregg Regarding Invalidity of United States Patent Number 6,803,984; Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Number 4,624,737; Report of Expert Lawrence Tannas, Jr. Regarding Invalidity of United States Patent Number 7,218,374; Report of Expert Webster Howard, Ph.D. Regarding Invalidity of United States Patent Numbers 5,905,274, 6,815,321, and 7,176,489; Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,019,002; Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 6,664,569; and Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,825,449 by Au Optronics Corporation, AU Optronics Corporation America, AU Optronics Corporation.(Pascale, Karen) (Entered: 03/09/2009)
- 05/10/2009 128 Official Transcript of Pretrial Conference held on 05-07-09 before Judge Joseph J. Farnan, Jr. Court Reporter/Transcriber Leonard A. Dibbs. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Transcriber before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER (Redaction Request due 6/1/2009., Redacted Transcript Deadline set for 6/10/2009., Release of Transcript Restriction set for 8/10/2009.). (lad) (Entered: 05/10/2009)
- 05/12/2009 129 MEMORANDUM ORDER Setting Bench Trial between LG and AUO for 6/2/2009 09:30 AM in Courtroom 4B before Judge Joseph J. Farnan, Jr. A second Pretrial Conference is set for 5/20/2009 01:30 PM in Courtroom 4B before Judge Joseph J. Farnan, Jr. (See Order for details). Signed by Judge Joseph J. Farnan, Jr. on 5/12/2009. Associated Cases: 1:06-cv-00726-JJF, 1:07-cv-00357-JJF(dlk) (Entered: 05/12/2009)
- 05/21/2009 130 Official Transcript of Final Pretrial Conference held on 05-20-09 before Judge Joseph J. Farnan, Jr. Court Reporter/Transcriber Leonard A. Dibbs. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Transcriber before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER (Redaction Request due 6/11/2009., Redacted Transcript Deadline set for 6/22/2009., Release of Transcript Restriction set for 8/19/2009.). (lad) (Entered: 05/21/2009)
- 05/22/2009 131 REDACTED VERSION of (1266 in 1:06-cv-00726-JJF) SEALED MOTION in Limine No. 7 To Preclude LGD's Reliance On Certain Prior Art Products And Foreign Language References by AU Optronics Corporation. (Attachments: # 1 Text of Proposed Order)(Pascale, Karen) (Entered: 05/22/2009)
- 07/20/2009 CORRECTING ENTRY: Official Transcripts of 10 day Bench Trial held in June 2009 (DI 132 thru 141) removed from member case CA 07-357 JJF. For information regarding these transcripts, SEE LEAD CASE CA 06-726 JJF, DI 1366 thru 1375. (rbe) (Entered: 07/20/2009)

06/03/2010 133 NOTICE of Appearance by Colm F. Connolly on behalf of LG Display America Inc., LG Display America, Inc., LG Display America, Inc. (Connolly, Colm) (Entered: 06/03/2010)

06/04/2010 134 MOTION for Pro Hac Vice Appearance of Attorney Kell M. Damsgaard, Thomas B. Kenworthy, and Collin W. Park - filed by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 06/04/2010)

06/07/2010 135 MOTION for Pro Hac Vice Appearance of Attorney John D. Zele - filed by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 06/07/2010)

06/14/2010 CORRECTING ENTRY: D.I. 132 was removed from the docket as it was corrected by D.I. 133. (nms) (Entered: 06/14/2010)

07/16/2010 136 PROPOSED Final Judgment ORDER, by AU Optronics Corporation America, Au Optronics Corporation. (Lundgren, Andrew) Modified on 7/19/2010 (nms). (Entered: 07/16/2010)

07/16/2010 137 Letter to The Honorable Joseph J. Farnan, Jr. from Andrew A. Lundgren regarding Proposed Final Judgment Order. (Lundgren, Andrew) Modified on 7/19/2010 (nms). (Entered: 07/16/2010)

08/18/2010 Case reassigned to Judge Leonard P. Stark. Please include the initials of the Judge (LPS) after the case number on all documents filed. (rpg) (Entered: 08/18/2010)

09/22/2010 SO ORDERED, re (1597 in 1:06-cv-00726-LPS) MOTION for Pro Hac Vice Appearance of Attorney John V. Gorman filed by LG Display Co., Ltd., LG Display America, Inc. Signed by Judge Leonard P. Stark on 9/22/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(rpg) (Entered: 09/22/2010)

11/02/2010 138 ORAL ORDER: IT IS ORDERED that counsel are to provide the Court with a joint status report on or before November 9, 2010. ORDERED by Judge Leonard P. Stark on 11/2/10. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(ntl) (Entered: 11/02/2010)

11/09/2010 139 Joint STATUS REPORT by LG Display America Inc., LG Display Co. Ltd., LG Display America, Inc., LG Display Co., Ltd., LG Display America, Inc.. (Connolly, Colm) (Entered: 11/09/2010)

12/13/2010 SO ORDERED, re (1630 in 1:06-cv-00726-LPS) Stipulation Regarding Participation of Litigation Counsel in Reexamination Proceedings by AU Optronics Corporation America, Au Optronics Corporation. Signed by Judge Leonard P. Stark on 12/13/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS, 1:08-cv-00355-LPS(rpg) (Entered: 12/13/2010)

12/29/2010 140 MEMORANDUM OPINION0 re 1508 MOTION For Limited Intervention To Obtain Copies Of Evidence - filed by Anvik Corporation. Signed by Judge Leonard P. Stark on 12/29/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(rpg) (Entered: 12/29/2010)

12/29/2010 141 ORDER granting in part and denying in part 1508 in 1:06-cv-00726-LPS MOTION to Intervene filed by Anvik Corporation re 1634 in 1:06-cv-00726-LPS and 140 in 1:07-cv-00357-LPS Memorandum Opinion by Judge Leonard P. Stark. Signed by Judge Leonard P. Stark on 12/29/2010. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(rpg) (Entered: 12/29/2010)

01/12/2011 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument - filed by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)

01/12/2011 143 OPENING BRIEF in Support re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument (Memorandum of Law in Support of Intervenor Anvik Corporation's Motion for Reconsideration or Reargument filed by Anvik Corporation. Answering Brief/Response due date per Local Rules is 1/31/2011. (Brennecke, Sean) (Entered: 01/12/2011)

01/12/2011 144 PROPOSED ORDER Reconsideration or Reargument re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)

01/12/2011 145 STATEMENT re 143 Opening Brief in Support, 144 Proposed Order, 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument Rule 7.1.1 Statement of Movant Anvik Corporation by Anvik Corporation. (Brennecke, Sean) (Entered: 01/12/2011)

02/07/2011 146 REPLY BRIEF re 142 MOTION for Reconsideration re 141 Order, Intervenor Anvik Corporation's Motion for Reconsideration or Reargument [Intervenor Anvik Corporation's Reply Memorandum of

Law in Support of Motion for Reconsideration or Reargument] filed by Anvik Corporation.
(Brennecke, Sean) (Entered: 02/07/2011)

- 02/14/2011 147 MEMORANDUM OPINION re Anvik's motion for reconsideration or reargument. Signed by Judge Leonard P. Stark on 2/14/11. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(ntl) (Entered: 02/14/2011)
- 02/14/2011 148 ORDER denying (1637) Motion for Reconsideration in case 1:06-cv-00726-LPS; denying (142) Motion for Reconsideration in case 1:07-cv-00357-LPS. Signed by Judge Leonard P. Stark on 2/14/11. Associated Cases: 1:06-cv-00726-LPS, 1:07-cv-00357-LPS(ntl) (Entered: 02/14/2011)
- 09/20/2011 149 STIPULATION of Dismissal with prejudice pursuant to Fed. R. Civ. P. 41(a) by AU Optronics Corporation America, Au Optronics Corporation, LG Display America, Inc., LG Display Co., Ltd., AU Optronics Corporation, LG Display America, Inc.. (Pascale, Karen) (Entered: 09/20/2011)
- 09/26/2011 150 SO ORDERED, re 149 Stipulation of Dismissal, *** Civil Case Terminated. Signed by Judge Leonard P. Stark on 9/26/11. (ntl) (Entered: 09/26/2011)
- 09/11/2013 151 ORDER AND NOTICE REGARDING RETURN OF SEALED DOCUMENTS: Pursuant to the attached STANDING ORDER dated January 8, 2013, sealed documents identified on the highlighted docket sheet will be claimed by the FILING party/attorney no later than 9/25/13. Filing attorney or their designee shall CLAIM their sealed documents by sending an E-MAIL, Subject: Return of Sealed Documents, to returnsealddocs@ded.uscourts.gov, listing the case number and a contact's name, phone number and address. Parties not registered in CM/ECF may call our Help Desk at 302-573-6170 to claim their sealed documents. Once sealed documents are claimed, THE CLERK SHALL prepare receipts and contact filers WHEN THEIR DOCUMENTS ARE READY FOR PICK-UP at the Clerk's Office, 844 N. King Street, Intake Help Desk, Room 4209. Documents not claimed shall be unsealed and handled pursuant to the standing order. (Attachments: # 1 Highlighted Docket Sheet)(cla,) (Entered: 09/11/2013)
- 09/26/2013 152 ACKNOWLEDGMENT OF RECEIPT of the following sealed documents, signed on behalf of Morgan Lewis & Bockius : D.I. # 69, 70 (cla,) (Entered: 09/26/2013)

KEYCITE

US PAT 6689629 ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE, Assignee: International Business Machines (Feb 10, 2004)

History

Direct History

- => 1 **ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE, US PAT 6689629, 2004 WL 247094 (U.S. PTO Utility Feb 10, 2004)**
Construed and Ruled Infringed by
- 2 LG Display Co., Ltd. v. AU Optronics Corp., 686 F.Supp.2d 429, 2010 Markman 545921 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF) (Markman Order Version)
AND Ruled Infringed by
- 3 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- 4 **LIQUID-CRYSTAL DISPLAY, LIQUID-CRYSTAL CONTROL CIRCUIT, FLICKER INHIBITION METHOD, AND LIQUID-CRYSTAL DRIVING METHOD, US PAT 6778160, 2004 WL 1839025 (U.S. PTO Utility Aug 17, 2004)**
Construed and Ruled Infringed by
- 5 LG Display Co., Ltd. v. AU Optronics Corp., 686 F.Supp.2d 429, 2010 Markman 545921 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF) (Markman Order Version)
AND Ruled Infringed by
- 6 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- 7 **SIGNAL TRANSMISSION DEVICE HAVING FLEXIBLE PRINTED CIRCUIT BOARDS, US PAT 7090506, 2006 WL 2358291 (U.S. PTO Utility Aug 15, 2006)**
Construed and Ruled Infringed by
- 8 LG Display Co., Ltd. v. AU Optronics Corp., 686 F.Supp.2d 429, 2010 Markman 545921 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF) (Markman Order Version)
AND Ruled Infringed by
- 9 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)

- 10 BACKLIGHT UNIT AND LIQUID CRYSTAL DISPLAY UTILIZING THE SAME, US PAT 7125157, 2006 WL 3011617 (U.S. PTO Utility Oct 24, 2006)
Construed and Ruled Infringed by
- 11 LG Display Co., Ltd. v. AU Optronics Corp., 686 F.Supp.2d 429, 2010 Markman 545921 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF) (Markman Order Version)
AND Ruled Infringed by
- 12 LG Display Co., Ltd. v. AU Optronics Corp., 722 F.Supp.2d 466 (D.Del. Jul 08, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)

Related References

- 13 ELECTRICAL BATTERY., US PAT 600457, 1898 WL 29085 (U.S. PTO Utility Mar 08, 1898)
Construed by
- 14 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- 15 PROCESS FOR PRODUCING THIN-FILM TRANSISTOR, US PAT 4624737, 1986 WL 520398 (U.S. PTO Utility Nov 25, 1986)
Construed by
- 16 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- 17 METHOD OF MANUFACTURING FLAT PANEL BACKPLANES INCLUDING ELECTRO-STATIC DISCHARGE PREVENTION AND DISPLAYS MADE THEREBY, US PAT 5019002, 1991 WL 951630 (U.S. PTO Utility May 28, 1991)
Construed by
- 18 LG. Philips LCD Co. Ltd. v. Tatung Co., 434 F.Supp.2d 292, 2006 Markman 1627858 (D.Del. Jun 13, 2006) (NO. CIV.A. 05-292-JJF) (Markman Order Version)
Order Issued by
- 19 LG. Philips LCD Co. LTD v. Tatung Co., 2006 WL 6143228, 2006 Markman 6143228 (D.Del. Jun 13, 2006) (NO. CIV. A. 05-292-JJF)
- 20 METHOD OF MANUFACTURING FLAT PANEL BACKPLANES INCLUDING ELECTRO-STATIC DISCHARGE PREVENTION AND DISPLAYS MADE THEREBY, US PAT 5019002, 1991 WL 951630 (U.S. PTO Utility May 28, 1991)
Construed and Ruled Not Infringed by
- 21 LG Display Co., Ltd. v. AU Optronics Corp., 709 F.Supp.2d 311, 2010 Markman 1780027 (D.Del. Apr 30, 2010) (NO. CIV.A.06-726-JJF, CIV.A.07-357-JJF) (Markman Order Version)
- 22 LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF MANUFACTURING THE

- SAME, US PAT 5825449, 1998 WL 1429389 (U.S. PTO Utility Oct 20, 1998)
Construed by
- ✘ 23 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
AND Construed by
- ✘ 24 LG Philips LCD Co., Ltd. v. Chunghwa Picture Tubes, Ltd., 2006 WL 6225745, 2006 Markman 6225745 (C.D.Cal. Oct 19, 2006) (NO. CV 02-6775 CBM(JTLX))
AND Construed and Ruled Not Infringed by
- ✘ 25 LG Display Co., Ltd. v. AU Optronics Corp., 709 F.Supp.2d 311, 2010 Markman 1780027 (D.Del. Apr 30, 2010) (NO. CIV.A.06-726-JJF, CIV.A.07-357-JJF) (Markman Order Version)
- ✘ 26 COMPUTER HAVING LIQUID CRYSTAL DISPLAY, US PAT 5926237, 1999 WL 1916690 (U.S. PTO Utility Jul 20, 1999)
Construed by
- ✘ 27 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- ✘ 28 COMPUTER HAVING LIQUID CRYSTAL DISPLAY, US PAT 6020942, 2000 WL 606086 (U.S. PTO Utility Feb 01, 2000)
Construed by
- ✘ 29 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- ✘ 30 COMPUTER HAVING LIQUID CRYSTAL DISPLAY BETWEEN FRAMES ATTACHED AT THE EDGES, US PAT 6373537, 2002 WL 555181 (U.S. PTO Utility Apr 16, 2002)
Construed by
- ✘ 31 LG Philips LCD Co., Ltd. v. Tatung Co. of America, 2005 WL 6219893, 2005 Markman 6219893 (C.D.Cal. May 05, 2005) (NO. CV 02-6775 CBM(JTLX))
- ▽ 32 THIN-FILM TRANSISTOR AND METHOD OF MAKING SAME, US PAT 6815321, 2004 WL 2553934 (U.S. PTO Utility Nov 09, 2004)
Construed and Ruled Not Infringed by
- ✘ 33 LG Display Co., Ltd. v. AU Optronics Corp., 709 F.Supp.2d 311, 2010 Markman 1780027 (D.Del. Apr 30, 2010) (NO. CIV.A.06-726-JJF, CIV.A.07-357-JJF) (Markman Order Version)
- ▽ 34 LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF MANUFACTURING THE SAME, US PAT 7218374, 2007 WL 1415964 (U.S. PTO Utility May 15, 2007)
Construed and Ruled Not Infringed by
- ✘ 35 LG Display Co., Ltd. v. AU Optronics Corp., 709 F.Supp.2d 311, 2010 Markman 1780027

(D.Del. Apr 30, 2010) (NO. CIV.A.06-726-JJF, CIV.A.07-357-JJF) (Markman Order Version)

- 36 LG.Philips LCD Co., Ltd. v. Chi Mei Optoelectronics Corp., 551 F.Supp.2d 333 (D.Del. Apr 29, 2008) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- 37 LG Display Co., Ltd. v. AU Optronics Corp., 265 F.R.D. 189 (D.Del. Feb 16, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- 38 LG Display Co., Ltd. v. AU Optronics Corp., 265 F.R.D. 199 (D.Del. Mar 02, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)
- 39 LG Display Co., Ltd. v. AU Optronics Corp., 2010 WL 2731667 (D.Del. Jul 09, 2010) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)

- 40 LG Display Co., Ltd. v. AU Optronics Corp., 2010 WL 5463305 (D.Del. Dec 29, 2010) (NO. CIV.A. 06-726-LPS, CIV.A. 07-357-LPS)
Reconsideration Denied by
- 41 LG Display Co., Ltd. v. AU Optronics Corp., 2011 WL 666865 (D.Del. Feb 14, 2011) (NO. CIV.A. 06-726-JJF, CIV.A. 07-357-JJF)

Court Documents

Trial Court Documents (U.S.A.)

D.Del. Trial Pleadings

- 42 LG.PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; Chi Mei Optoelectronics USA, Inc.; Au Optronics Corporation; Au Optronics Corporation America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants., 2007 WL 8434705 (Trial Pleading) (D.Del. May 22, 2007) **First Amended Complaint for Patent Infringement Against Defendant Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc.** (NO. 06-726-JJF)
- 43 LG. PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; AU Optronics Corporation; AU Optronics Corporation America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants. AU Optronics Corporation, Counterclaim Plaintiff, v. LG.Philips LCD Co., L, 2007 WL 8434702 (Trial Pleading) (D.Del. Jun. 5, 2007) **AUO Defendants' Answer and Counterclaim Against Plaintiff and Additional Party LG.Philips LCD America, Inc.** (NO. 06-726-JJE)
- 44 AU OPTRONICS CORPORATION, Plaintiff, v. LG.PHILIPS LCD CO., LTD. and LG.Philips LCD America, Inc., Defendants. LG.Philips LCD Co., Ltd. and LG.Philips LCD America, Inc., Counterclaim Plaintiffs, v. AU Optronics Corporation, Counterclaim Defendant., 2007 WL 8434467 (Trial Pleading) (D.Del. Jun. 11, 2007) **LG.Philips LCD America, Inc.'s Answer and Counterclaims against Plaintiff** (NO. 07-357-UNA)
- 45 AU OPTRONICS CORPORATION, Plaintiff, v. LG.PHILIPS LCD CO., LTD. and LG.Philips LCD America, Inc., Defendants. LG.Philips LCD Co., Ltd. and LG.Philips LCD America, Inc., Counterclaim Plaintiffs, v. AU Optronics Corporation; AU Optronics Corporation America; Chi

- Mei Optoelectronics Corporation; and C, 2007 WL 8434468 (Trial Pleading) (D.Del. Jun. 11, 2007) **LG.Philips LCD Co., Ltd.'s Answer and Counterclaims against Plaintiff and Additional Parties AU Optronics Corporation America, Chi Mei Optoelectronics Corporation, and Chi Mei Optoelectronics USA, Inc** (NO. 07-357-UNA)
- 46 AU OPTRONICS CORPORATION, Plaintiff, v. LG. PHILIPS LCD CO., LTD. and LG. Philips LCD America, Inc., Defendants. LG. Philips LCD Co., Ltd. and LG. Philips LCD America, Inc., Counterclaim Plaintiffs, v. AU Optronics Corporation; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation; a, 2007 WL 8434465 (Trial Pleading) (D.Del. Jun. 21, 2007) **AU Optronics Corporation's Reply to LG.Philips LCD America, Inc.'s Counterclaims and Counterclaims against LG.Philips LCD America, Inc.** (NO. 07-357-JJF)
- 47 AU OPTRONICS CORPORATION, Plaintiff, v. LG. PHILIPS LCD CO., LTD. and LG. Philips LCD America, Inc., Defendants. LG. Philips LCD Co., Ltd. and LG. Philips LCD America, Inc., Counterclaim Plaintiffs, v. AU Optronics Corporation; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation; a, 2007 WL 8434466 (Trial Pleading) (D.Del. Jun. 21, 2007) **AU Optronics Corporation's Reply to LG.Philips LCD Co. Ltd.'s Counterclaims and Counterclaims against LG.Philips LCD Co., Ltd.** (NO. 07-357-JJF)
- 48 AU OPTRONICS CORPORATION, Plaintiff, v. LG. PHILIPS LCD CO., LTD. and LG. Philips LCD America, Inc., Defendants. LG. Philips LCD Co., Ltd. and LG. Philips LCD America, Inc., Counterclaim Plaintiffs, v. AU Optronics Corporation; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation; a, 2007 WL 8434474 (Trial Pleading) (D.Del. Jun. 21, 2007) **AU Optronics Corporation America's Reply to LG.Philips LCD Co. Ltd.'s Counterclaims and Counterclaims against LG.Philips LCD Co. Ltd.** (NO. 07-357-JJF)
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- 108 LG. PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; AU Optronics Corporation, AU Optronics Corporation of America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants. AU Optronics Corporation, Plaintiff, v. LG.Philips LCD Co., Ltd and LG., 2007 WL 8434723 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 16, 2007) **Reply in Support of Chi Mei Optoelectronics Corporation's Motion and Joinder in Viewsonic Corporation's Motion to Strike Plaintiff's Amended Complaints** (NO. 06-726 (GMS), 07-357 (GMS))
- 109 LG.PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et

- al., Defendants. AU Optronics Corporation, Plaintiff, v. LG.Philips LCD Co., Ltd and LG.Philips LCD America, Inc., Defendants. LG.Philips LCD Co., Ltd. and LG.Philips LCD America, Inc., Counterclaim-Plaintiffs, v. AU Opt, 2007 WL 8434724 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 22, 2007) **Opening Brief of Chi Mei Optoelectronics USA, Inc. in Support of Its Motion to Dismiss and/or Strike LG.Philips LCD Co., Ltd's Additional Counterclaims** (NO. 06-726 (GMS), 07-357 (GMS))
- 110 LG.PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2007 WL 8434707 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 17, 2007) **LG.Philips LCD Co., Ltd.'s Response to Chi Mei Optoelectronics Corporation's Motion to Dismiss for Lack of Personal Jurisdiction and for Insufficiency of Service of Process** (NO. 06-726 (GMS), 07-357 (GMS))
- 111 LG.PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2007 WL 8434708 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 17, 2007) **LG.Philips LCD Co., Ltd.'s Answering Brief in Opposition to Chi Mei Optoelectronics USA, Inc.'s Motion to Dismiss and/or Strike Additional Counterclaims** (NO. 06-726 (GMS), 07-357 (GMS))
- 112 LG.PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; AU Optronics Corporation, AU Optronics Corporation of America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants. AU Optronics Corporation, Plaintiff, v. LG.Philips LCD Co., Ltd and LG.P, 2007 WL 8434721 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 1, 2007) **Reply in Support of Chi Mei Optoelectronics USA, Inc.'s Motion to Dismiss and/or Strike LG.Philips LCD Co., Ltd's "Additional Counterclaims"** (NO. 06-726 (GMS), 07-357 (GMS))
- 113 LG. PHILIPS LCD CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; Au Optronics Corporation, Au Optronics Corporation of America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG. PHILIPS LCD CO., LTD and LG, 2008 WL 1995672 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 4, 2008) **Chi Mei Optoelectronics Corporation's Opening Brief in Support of Its Motion to Strike Plaintiff's Second ""first Amended Complaint""** (NO. 106CV00726)
- 114 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 1995675 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 17, 2008) **Plaintiff's Answering Brief in Opposition to Chi Mei Optoelectronics Corporation's Motion to Strike Plaintiff's Amended Complaint** (NO. 106CV00726)
- 115 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; Au Optronics Corporation, Au Optronics Corporation of America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD and LG Display Am, 2008 WL 1995676 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 25, 2008) **Reply Brief of Chi Mei Optoelectronics Corporation in Support of Its Motion to Strike Plaintiff's Second ""First Amended Complaint""** (NO. 106CV00726)
- 116 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881887 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 6,

- 2008) **Plaintiff LG Display's Opening Brief in Support of LG Display's Motion for Entry of Protective Order** (NO. 06-726 (JFF), 07-357 (JFF))
- 117 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881910 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 6, 2008) **Plaintiff LG Display Co. Ltd.'s Motion for Entry of Protective Order** (NO. 06-726 (JFF), 07-357 (JFF))
- 118 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION; AU Optronics Corporation, AU Optronics Corporation of America; Tatung Company; Tatung Company of America, Inc.; and Viewsonic Corporation, Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd and LG Display A, 2008 WL 9881886 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 23, 2008) **Defendant Chi Mei Optoelectronics Corporation's Opposition to Plaintiff's Motion for Entry of Protective Order** (NO. 06-726 (JFF), 07-357 (JFF))
- 119 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881898 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 25, 2008) **Defendant Chi Mei Optoelectronics Corporation's Opening Brief in Support of Motion to Consolidate and to Extend Discovery Limits** (NO. 06-726 (JFF), 07-357 (JFF))
- 120 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. Chi Mei Optoelectronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881899 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 25, 2008) **Plaintiff LG Display's Opening Brief in Support of Its Motion for Consolidation** (NO. 06-726 (JFF), 07-357 (JFF), 08-355 (JFF))
- 121 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881855 (Trial Motion, Memorandum and Affidavit) (D.Del. Jul. 3, 2008) **Plaintiff LG Display's Reply Brief in Support of Its Motion for Entry of Protective Order** (NO. 06-726 (JFF), 07-357 (JFF))
- 122 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. Chi Mei Optoelectronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881856 (Trial Motion, Memorandum and Affidavit) (D.Del. Jul. 14, 2008) **Plaintiff LG Display's Answering Brief in Opposition to Chi Mei Optoelectronics Corporation's Motion for Consolidation** (NO. 06-726 (JFF), 07-357 (JFF), 08-355 (JFF))
- 123 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION, et al, Defendants., 2008 WL 9881885 (Trial Motion, Memorandum and Affidavit) (D.Del. Jul. 14, 2008) **AU Optronics Corporation's Response to Motion to Consolidate and to Extend Discovery Limits Filed by Defendant Chi Mei Optoelectronics Corporation** (NO. 06-726-JFF, 07-357-JFF)
- 124 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI Mei Optoelectronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9876520 (Trial Motion, Memorandum and Affidavit) (D.Del. Jul. 24, 2008) **Plaintiff LG Display's Reply Brief in Support of Its Motion to Consolidate** (NO. 06-726 (JFF), 07-357 (JFF), 08-355 (JFF))
- 125 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc.,

- Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002377 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 11, 2008) **Auo's Opening Claim Construction Brief** (NO. 106CV00726)
- 126 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002378 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 11, 2008) **Memorandum In Support of Defendants Chi Mei Optoelectronics' Proposed Claim Constructions** (NO. 106CV00726)
- 127 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881880 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 11, 2008) **Defendants Chi Mei Optoelectronics' Motion to Compel Plaintiffs LG Display to Produce Documents Responsive to Document Request No. 98** (NO. 06-726 (JJF), 07-357 (JJF))
- 128 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002379 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 12, 2008) **Opening Claim Construction Brief of Plaintiff LG Display Co., Ltd.** (NO. 106CV00726)
- 129 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881882 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 12, 2008) **Plaintiff LG Display's Opening Brief in Support of Its Motion to Compel Chi Mei Optoelectronics Corporation to Provide Discovery** (NO. 06-726 (JJF), 07-357 (JJF))
- 130 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881858 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 28, 2008) **LG Display's Brief in Opposition to Chi Mei Optoelectronics Corporation's Motion to Compel Plaintiffs LG Display to Produce Documents Responsive to Document Request No. 98** (NO. 06-726 (JJF), 07-357 (JJF))
- 131 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881877 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 3, 2008) **Defendants Chi Mei Optoelectronics' Motion to Compel Plaintiffs LG Display to Respond to CMO Interrogatories Nos. 1-27** (NO. 06-726 (JJF), 07-357 (JJF))
- 132 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002380 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Auo's Response To Lgd's Claim Construction Briefing On Auo's Patents** (NO. 106CV00726)
- 133 LG DISPLAY CO., Ltd., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; CHI, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002381 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Auo's Responsive Claim Construction Brief for Lg Display's Patents** (NO. 106CV00726)
- 134 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002382 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Response of Plaintiff Lg Display Co., Ltd. To Auo's Opening Claim Construction**

- Brief (NO. 106CV00726)**
- 135 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002383 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Response of Plaintiff Lg Display Co., Ltd. To Cmo's Opening Claim Construction Brief (NO. 106CV00726)**
- 136 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002384 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Chi Mei Optoelectronics' Answering Memorandum Regarding Proposed Claim Constructions (NO. 106CV00726)**
- 137 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881905 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Defendants Chi Mei Optoelectronics' Answering Brief in Opposition to Plaintiff LG Display's Motion to Compel (NO. 06-726 (JJF), 07-357 (JJF))**
- 138 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881907 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Thomas C. Werner in Support of Defendants Chi Mei Optoelectronics' Answering Brief in Opposition to Plaintiff LG Display's Motion to Compel Defendants to Provide Discovery (NO. 06-726 (JJF), 07-357 (JJF))**
- 139 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881914 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 5, 2008) **Defendants Chi Mei Optoelectronics' Reply Brief in Support of Motion to Compel Plaintiffs LG Display to Produce Documents Responsive to Document Request No. 98 (NO. 06-726 (JJF), 07-357 (JJF))**
- 140 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002385 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 10, 2008) **Plaintiff LG Display Co., Ltd.'s Brief in Support of its Motion to Strike AU Optronics Corporation's Claim Construction Briefs (NO. 106CV00726)**
- 141 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6137427 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 10, 2008) **Plaintiff Lg Display Co., Ltd.'s Brief in Support of Its Motion to Strike Chi Mei Optoelectronics Corporation's Claim Construction Briefs (NO. 06-726, JJF)**
- 142 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881911 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 12, 2008) **AUO's Opening Brief in Support of Its Motion to Compel Production of Positive Litigation Documents (NO. 06-726-JJF, 07-357-JJF)**
- 143 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881912 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 12, 2008) **Defendant AU Optronics Corporation's Opening Brief in Support of Its Motion for Protective Order (NO. 06-726-JJF, 07-357-JJF)**

- 144 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881916 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 12, 2008) **Reply Brief in Support of Plaintiff LG Display Co. Ltd.'s Motion to Compel Chi Mei Optoelectronics to Provide Discovery** (NO. 06-726 (JJF), 07-357 (JJF))
- 145 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881883 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 22, 2008) **LG Display's and LG Display America's Brief in Opposition to Plaintiffs Chi Mei Optoelectronics' Motion to Compel Defendants to Respond to CMO Interrogatories Nos. 1-27** (NO. 06-726 (JJF), 07-357 (JJF))
- 146 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881881 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 25, 2008) **Defendants Chi Mei Optoelectronics' Reply Brief in Support of Motion to Compel Plaintiff LG Display to Respond to CMO Interrogatories Nos. 1-27** (NO. 06-726 (JJF), 07-357 (JJF))
- 147 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002386 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 29, 2008) **Defendants Chi Mei Optoelectronics' Answering Brief In Opposition To Plaintiff LG Display's Motion to Strike Claim Construction Briefs** (NO. 106CV00726)
- 148 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881869 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 29, 2008) **LG Display's Brief in Opposition to AUO's Motion to Compel Production of Positive Litigation Documents** (NO. 06-726 (JJF), 07-357 (JJF))
- 149 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881884 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 29, 2008) **LG Display Co., Ltd's Brief in Opposition to AUO's Motion for a Protective Order** (NO. 06-726 (JJF), 07-357 (JJF))
- 150 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881857 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 3, 2008) **Defendant AU Optronics Corporation's Reply Brief in Support of Its Motion for Protective Order** (NO. 06-726-JJF, 07-357-JJF)
- 151 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881891 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 3, 2008) **AUO's Reply Brief in Support of Its Motion to Compel Production of Positive Litigation Documents** (NO. 06-726-JJF, 07-357-JJF)
- 152 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002387 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 8, 2008) **Plaintiff LG Display Co., Ltd.'s Reply Brief In Support of its Motion to Strike CMO's Claim Construction Briefs** (NO. 106CV00726)
- 153 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Cor-

- poration America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881859 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 9, 2008) **AU Optronics' Opening Brief in Support of Its Motion to Compel LGD to Produce Complete GDS Files** (NO. 06-726-JJF, 07-357-JJF)
- 154 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881874 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 9, 2008) **Defendant AU Optronics Corporation's Opening Brief in Support of Motion to Compel Production of Documents and Responses to Interrogatories** (NO. 06-726-JJF, 07-357-JJF)
- 155 LG DISPLAY CO., LTD, Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881893 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 16, 2008) **Plaintiff LG Display Co., Ltd.'s Opening Brief in Support of Its Motion to Compel AU Optronics Corp. to Provide Essential Information in Response to Interrogatory Nos. 2-4 and Critical Technical Docum** (NO. 06-357 (JJF), 06-726 (JJF))
- 156 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881879 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 27, 2008) **Plaintiff LG Display Co., Ltd's Brief in Opposition to AU Optronics Corporation's Motion to Compel Production of Documents and Responses to Interrogatories** (NO. 06-726 (JJF), 07-357 (JJF))
- 157 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881872 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 31, 2008) **Defendant AU Optronics Corporation's Reply Brief in Support of Motion to Compel LG Display to Produce Documents and Respond to Interrogatories** (NO. 06-726-JJF, 07-357-JJF)
- 158 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881889 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 31, 2008) **AUO's Reply Brief in Support of Its Motion to Compel Complete GDS Files** (NO. 06-726-JJF, 07-357-JJF)
- 159 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881904 (Trial Motion, Memorandum and Affidavit) (D.Del. Nov. 3, 2008) **Defendant AU Optronics Corporation's Answering Brief in Opposition to Plaintiff LG Display Co., Ltd.'s Motion to Compel Responses to Interrogatory Nos. 2-4 and Technical Documents** (NO. 06-726-JJF, 07-357-JJF)
- 160 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Cor-

- poration America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881908 (Trial Motion, Memorandum and Affidavit) (D.Del. Nov. 3, 2008) **Defendant AU Optronics Corporation's Answering Brief in Opposition to Plaintiff LG Display Co., Ltd.'s Motion to Compel AU Optronics Corporation to Provide Inducement and Damages Discovery** (NO. 06-726-JJF, 07-357-JJF)
- 161 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881878 (Trial Motion, Memorandum and Affidavit) (D.Del. Nov. 11, 2008) **Plaintiff LG Display Co., Ltd's Reply Brief in Support of Its Motion to Compel AU Optronics Corporation to Provide Essential Information in Response to Interrogatory Nos. 2-4 and Critical Technical Do** (NO. 06-726 (JJF), 07-357 (JJF))
- 162 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881876 (Trial Motion, Memorandum and Affidavit) (D.Del. Nov. 19, 2008) **Defendant Chi Mei Optoelectronics' Motion to Compel Plaintiff LG Display to Honor Agreement to Produce Documents and to Cooperate in Discovery** (NO. 06-726 (JJF), 07-357 (JJF))
- 163 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881860 (Trial Motion, Memorandum and Affidavit) (D.Del. Nov. 26, 2008) **AUO's Opening Brief in Support of Its Motion to Compel LGD to Produce Technical Documents** (NO. 06-726-JJF, 07-357-JJF)
- 164 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronic Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881863 (Trial Motion, Memorandum and Affidavit) (D.Del. Dec. 1, 2008) **AUO's Opening Brief in Support of Its Motion for Protective Order Regarding LGD's November 26, 2008 Deposition Notices (D.I. 624, 651-661, 672-676)** (NO. 06-726-JJF, 07-357-JJF)
- 165 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881906 (Trial Motion, Memorandum and Affidavit) (D.Del. Dec. 1, 2008) **Plaintiff LG Display's Opening Brief in Support of Its Motion to Compel Chi Mei Optoelectronics Corporation to Provide Critical Product Information in Response to Interrogatory Nos. 1-5 and 10** (NO. 06-726 (JJF), 07-357 (JJF))
- 166 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881909 (Trial Motion, Memorandum and Affidavit) (D.Del. Dec. 8, 2008) **Defendants Chi Mei Optoelectronics' Answering Brief in Opposition to Plaintiff LG Display's Motion to Compel** (NO. 06-726 (JJF), 07-357 (JJF))
- 167 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881861 (Trial Motion, Memorandum and Affidavit) (D.Del. Dec. 12, 2008) **Defendant Chi Mei Optoelectronics' Reply Brief in Support of Motion to Compel Plaintiff LG Display to Honor Agreement to Produce Documents and to Cooperate in Discovery** (NO. 06-726 (JJF), 07-357 (JJF))

- 168 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 9881875 (Trial Motion, Memorandum and Affidavit) (D.Del. Dec. 12, 2008) **AUO's Reply Brief in Support of Its Motion to Compel LGD to Produce Technical Documents** (NO. 06-726-JJF, 07-357-JJF)
- 169 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881862 (Trial Motion, Memorandum and Affidavit) (D.Del. Dec. 15, 2008) **Declaration of Thomas C. Werner in Support of Defendants Chi Mei Optoelectronics' Answering Brief in Opposition to Plaintiff LG Display's Motion to Compel** (NO. 06-726 (JJF), 07-357 (JJF))
- 170 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881866 (Trial Motion, Memorandum and Affidavit) (D.Del. Dec. 15, 2008) **Plaintiff LG Display's Brief in Opposition to Defendant Chi Mei Optoelectronics' Motion to Compel LG Display to Honor Agreement to Produce Documents and to Cooperate in Discovery** (NO. 06-726 (JJF), 07-357 (JJF))
- 171 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9881900 (Trial Motion, Memorandum and Affidavit) (D.Del. Dec. 15, 2008) **LG Display's Brief in Opposition to AUO's Motion to Compel LGD to Produce Technical Documents** (NO. 06-726 (JJF), 07-357 (JJF))
- 172 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 9882717 (Trial Motion, Memorandum and Affidavit) (D.Del. Dec. 18, 2008) **LG Display's Brief in Opposition to AUO's Motion for Protective Order Regarding LGD's November 26, 2008 Deposition Notices (D.I. 624, 652-661, 672-76)** (NO. 06-726 (JJF), 07-357 (JJF))
- 173 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 1347872 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 20, 2009) **Plaintiff Lg Display's Opening Brief in Support of its Motion to Compel Au Optronics Corporation and Chi Mei Optoelectronics Corporation to Provide Knowledgeable Deposition Witnesses and for Entry of** (NO. 106CV00726)
- 174 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541631 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 28, 2009) **Defendant Chi Mei Optoelectronics' Motion to Compel Plaintiff LG Display to Produce Documents and Provide Competent Witnesses** (NO. 06-726 (JJF), 07-357 (JJF), 08-355 (JJF))
- 175 LG DISPLAY CO., LTD., Plaintiff, v. CHI MET OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541632 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 30, 2009) **Plaintiff LG Display's Opening Brief in Support of Its Motion to Compel Au Optronics Corporation and Chi Mei Optoelectronics Corporation to Produce Court-Ordered and Related Discovery** (NO. 06-726 (JJF))
- 176 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541644 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 30, 2009) **LG Display Co. Ltd's Opening Brief in Support of Its Motion to Strike AU Optronics**

- Corporation's Advice of Counsel Defense or in the Alternative, to Compel Production of Documents, Witnesses, and Thir** (NO. 06-726 (JJF))
- 177 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 1347876 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 6, 2009) **Defendant Au Optronics Corporation's Answering Brief in Opposition to Plaintiff Lg Display Co., Ltd.'s Motion to Compel Auo to Provide Knowledgeable Deposition Witnesses and for Entry of Protective Or** (NO. 106CV00726)
- 178 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541645 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 13, 2009) **Defendants Chi Mei Optoelectronics' Answering Brief in Opposition to Plaintiff LG Display's Motion to Compel** (NO. 06-726 (JJF), 07-357 (JJF), 08-355 (JJF))
- 179 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation, and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 1347859 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 17, 2009) **Defendant AU Optronics Corporation's Corrected Answering Brief in Opposition to Plaintiff's Motion to Strike Advice of Counsel Defense or in the Alternative, to Compel Production of Documents, Witness** (NO. 106CV00726)
- 180 LG DISPLAY CO., LTD., Plaintiff, v. AU OPIRONICS CORPORATION; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation, and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 1347866 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 17, 2009) **Defendant AU Optronics Corporation's Answering Brief in Opposition to Plaintiff Lg Display Co., Ltd.'s Motion to Compel Additional Correlation Charts, Technical Documents, and Damages Discovery** (NO. 106CV00726)
- 181 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541634 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 17, 2009) **Reply Brief in Support of Defendant Chi Mei Optoelectronics' Motion to Compel Plaintiff LG Display to Produce Documents and Provide Competent Witnesses** (NO. 06-726 (JJF), 07-357 (JJF), 08-355 (JJF))
- 182 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541643 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 17, 2009) **Defendants Chi Mei Optoelectronics' Answering Brief in Opposition to Plaintiff LG Display's January 23, 2009 Motion to Compel** (NO. 06-726 (JJF), 07-357 (JJF), 08-355 (JJF))
- 183 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541534 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 20, 2009) **Plaintiff LG Display Co., Ltd.'s Brief in Opposition to AUO's Motion to Compel LGD to Allow AUO to Complete Its Deposition of Key LGD Damages Witnesses** (NO. 06-726 (JJF))
- 184 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 9541550 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb.

- 23, 2009) **AUO's Reply in Support of Its Motion to Compel LGD to Allow AUO to Complete Its Deposition of Key LGD Damages Witnesses** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 185 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION, et al., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd., et al., Defendants., 2009 WL 9541553 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 20, 2009) **AU Optronics Corporation's Opening Brief in Support of Its Motion to Compel Production of LGD's Reexamination Files** (NO. 06-726-JJF, 07-357-JJF)
- 186 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 9541555 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 27, 2009) **AU Optronics' Opening Brief in Support of Its Motion to Preclude LGD's Reliance on Prior Art Not Identified in Its Invalidity Contentions** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 187 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541556 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 27, 2009) **LG Display Co., Ltd.'s Brief in Support of Its Motion to Compel AUO to Provide Knowledgeable Witnesses on Key Inducement and Damages Deposition Topics** (NO. 06-726 (JJF))
- 188 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541557 (Trial Motion, Memorandum and Affidavit) (D.Del. Mar. 27, 2009) **LG Display Co. Ltd's Opening Brief in Support of Its Motion to Strike or Preclude Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc. from Asserting an Advice of Counsel Defense** (NO. 06-726 (JJF))
- 189 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541535 (Trial Motion, Memorandum and Affidavit) (D.Del. Apr. 6, 2009) **LG Display Co. Ltd.'s Brief in Opposition to Defendant AU Optronics Corp.'s Motion to Compel Production of Reexamination Files and Defendant Chi Mei Optoelectronics Corp.'s Motion and Joinder in AUO's** (NO. 06-726 (JJF))
- 190 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION, et al., Defendants. AU Optronics Corporation, Plaintiff, v. LG Display Co., Ltd., et al., Defendants., 2009 WL 9541536 (Trial Motion, Memorandum and Affidavit) (D.Del. Apr. 10, 2009) **AU Optronics Corporation's Reply Brief in Support of Its Motion to Compel Production of LGD's Reexamination Files** (NO. 06-726-JJF, 07-357-JJF)
- 191 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541538 (Trial Motion, Memorandum and Affidavit) (D.Del. Apr. 13, 2009) **LG Display Co., Ltd.'s Brief in Opposition to AUO's Motion to Preclude LG Display's Reliance on Certain Prior Art References** (NO. 06-726 (JJF))
- 192 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 9541541 (Trial Motion, Memorandum and Affidavit) (D.Del. Apr. 14, 2009) **Defendant Chi Mei Optoelectronics Corporation's Answering Brief in Opposition to Plaintiff's Motion to Strike or Preclude Advice of Counsel Defense** (NO. 06-726 (JJF), 07-357 (JJF), 08-355 (JJF))
- 193 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al.,

- Defendants., 2009 WL 9541552 (Trial Motion, Memorandum and Affidavit) (D.Del. Apr. 16, 2009) **Plaintiff LG Display's Reply Brief in Support of Its Motion to Strike AUO's Advice of Counsel Defense or in the Alternative to Compel Production of Documents, Witnesses, and Third Party Discovery** (NO. 06-726 (JJF))
- 194 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 9541548 (Trial Motion, Memorandum and Affidavit) (D.Del. Apr. 17, 2009) **AU Optronics Corporation's Answering Brief in Opposition to LG Display Co. Ltd.'s Motion to Compel AUO to Provide Knowledgeable Witness on Key Inducement and Damages Deposition Topics** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 195 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242274 (Trial Motion, Memorandum and Affidavit) (D.Del. May 1, 2009) **Chi Mei Optoelectronics' Motion in Limine No.2 to Preclude Lg Display from Presenting Evidence or Argument Regarding Findings of Infringement or Validity from Prior Litigation** (NO. 106CV00726)
- 196 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3242275 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Auo's Opening Brief in Support of Its Motion for Summary Judgment of Unenforceability of Claim 1 of Lgd's 449 Patent** (NO. 106CV00726)
- 197 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and Lg Display America, Inc., Defendants., 2009 WL 3242276 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 3 to Exclude Evidence of LG Display Settlement Agreements** (NO. 106CV00726)
- 198 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and CHI Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242277 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 4 to Exclude Testimony By Lgd's Expert Witness Arthur Cobb Due to Failure to Comply with the Requirements of FRCP 26** (NO. 106CV00726)
- 199 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242278 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 5 to Preclude Lg Display from Presenting Evidence or Argument Regarding the Supplemental Expert Report of Dr. Elliott Schlam and to Strike the Report** (NO. 106CV00726)
- 200 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al.,

- Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242279 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No.6 to Preclude Lg Display Form Presenting Evidence or Argument Regarding the Rebuttal Expert Reports of Dr. Elliott Schlam and to Strike the Reports** (NO. 106CV00726)
- 201 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242280 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No.7 to Preclude LG Display from Introducing Evidence on Yield** (NO. 106CV00726)
- 202 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., Ltd. and Lg Display America, Inc., Defendants., 2009 WL 3242281 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Memorandum of Points and Authorities in Support of Motion for Partial Summary Judgment Finding Non-Infringement of U.S. Patent 6,803,984 By Chi Mei Optoelectronics' Fab V** (NO. 106CV00726)
- 203 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242282 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics Corporation's Memorandum of Points and Authorities in Support of Its Motion for Partial Summary Judgment Finding Non-Infringement of U.S. Patent No. 7,218,374 By Certain Cmo Pr** (NO. 106CV00726)
- 204 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3242283 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **AUO's Opening Brief in Support of Its Motion for Summary Judgment of Invalidity of All of Claims of LGD's '737 Patent** (NO. 106CV00726)
- 205 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2009 WL 9541545 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 1 to Preclude LG Display from Using Damages Expert Testimony and Verdicts from Prior Litigations** (NO. 06-726 (JJF), 07-357 (JJF), 08-355 (JJF))
- 206 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2009 WL 9541549 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Defendant Chi Mei Optoelectronics' Daubert Motion to Preclude Testimony at Trial by Arthur H. Cobb Re: Damages on the '737 and the '449 Patents** (NO. 06-726 (JJF), 07-357 (JJF), 08-355 (JJF))

- 207 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3242284 (Trial Motion, Memorandum and Affidavit) (D.Del. May 12, 2009) **Plaintiff LG Display Company Ltd.'s Reply Brief in Support of Its Motion to Strike or Preclude Chi Mei Optoelectronics Corporation and Chi Mei Optoelectronics USA, Inc. From Asserting an Advice of Cou** (NO. 106CV00726)
- 208 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3242285 (Trial Motion, Memorandum and Affidavit) (D.Del. May 12, 2009) **LG Display Co., Ltd.'s Reply Brief in Support of Its Motion to Compel Auo to Provide Knowledgeable Witnesses on Key Inducement and Damages Deposition Topics** (NO. 106CV00726)
- 209 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORAION, et al., Defendants., 2009 WL 3242286 (Trial Motion, Memorandum and Affidavit) (D.Del. May 13, 2009) **LG Display Co., Ltd.'s Opposition to AUO's Motion to Supplement Briefing of Its Motion to Preclude LG Display's Reliance On Invalidating Prior Art** (NO. 106CV00726)
- 210 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; CHI, MEI Optoelectronics Corporation; and CHI MEI Optoelectronics USA, Inc., Defendants., 2009 WL 3242287 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **AUO's Opening Brief in Support of its Motion for Summary Judgment of Invalidity on all Claims of LGD's "274," "321" and "489 Patents** (NO. 106CV00726)
- 211 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3242288 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **Au Optronics' Motion in Limine No. 1 to Exclude any Opinion Testimony by LG Display's Technical Experts Regarding any Devices or Processes that they have not Analyzed** (NO. 106CV00726)
- 212 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245830 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **Au Optronics' Motion in Limine No.2 to Preclude Any Reference to the Prior Cpt Litigations** (NO. 106CV00726)
- 213 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245831 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **Au Optronics' Motion in Limine No.3 to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance by Experts on the Prior Testimony of Expert Michael Keeley in the California CPT Litiga** (NO. 106CV00726)
- 214 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245832 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **AU Optronics' Motion in Limine No. 4 to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance By Experts on the Prior Testimony of Dr. Holmberg, Mr. Castleberry, and Mr. Ho Lee in** (NO. 106CV00726)
- 215 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Cor-

- poration America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245833 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Au Optronics' Motion in Limine No.5 to Preclude Lg Display from Introducing Any Evidence Regarding Yield Percentage and to Preclude Mr. Cobb from Offering Any Opinions Based Upon Yield Improvements** (NO. 106CV00726)
- 216 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245834 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **LG Display Co., Ltd.'s Motion in Limine No. 1 to Preclude Joyce Pan and James Chen from Testifying at Trial because They Were not Timely Identified by AU Optronics Corporation** (NO. 106CV00726)
- 217 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245835 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 2 to Preclude Auo's Experts from Asserting Prior Art Against Lg Display's Patents that They Did not Address in Their Expert Reports** (NO. 106CV00726)
- 218 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORP., et al., Defendants., 2009 WL 3245836 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **LG Display Co., Ltd's Motion Inlimine No. 4 to Preclude the Introduction of Testimony from the Deposition of Third Party Catalyst Sales, Inc. Prior to Appearance At the Deposition By All Counsel** (NO. 106CV00726)
- 219 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245837 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 3 to Preclude Auo from Offering Evidence Regarding Advice of Counsel** (NO. 106CV00726)
- 220 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245838 (Trial Motion, Memorandum and Affidavit) (D.Del. May 28, 2009) **Lg Display Co., Ltd.'s Opposition to Auo's ""Addendum" to Its Motion Limine No. 7** (NO. 106CV00726)
- 221 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245839 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 5, 2009) **Auo's Opposition to Lgd's Motion in Limine to Preclude Auo from Introducing Live Testimony from Mr. Kuang-Tao ("Surf") Sung or Other Evidence Allegedly Showing Dates of Conception and Reduction to P** (NO. 106CV00726)
- 222 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245840 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 5, 2009) **Addendum to AUO's Motion in Limine No. 7 (D.I. 1266), Regarding Additional Untimely Prior Art Documents (LGD 2170033-2170457, Produced by LGD on May 26, 2009)** (NO. 106CV00726)
- 223 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245841 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 8,

- 2009) **Au Optronics' Response to Lg Display Co. Ltd.'s Motion in Limine No.5 to Preclude Introduction of Evidence or Opinion Testimony Concerning Electro-Static Discharge Repairs and Repair Costs** (NO. 106CV00726)
- 224 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245842 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 8, 2009) **Au Optronics' Response to Lg Display Co. Ltd.'s Motion in Limine No. 3** (NO. 106CV00726)
- 225 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245843 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Motion in Limine No.5 to Preclude Auo from Introducing Evidence or Opinion Testimony Concerning Purported Electro-Static Discharge Repairs and Repair Costs** (NO. 106CV00726)
- 226 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245844 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 5** (NO. 106CV00726)
- 227 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORP., et al., Defendants., 2009 WL 3245845 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Opposition to Au Optronics Corporation's Motion in Limine No.6 to Preclude Lgd from Relying On Certain Defenses and Evidence that Lgd Failed to Disclose During Discovery** (NO. 106CV00726)
- 228 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245846 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 4 to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance By Experts On the Prior Testimony of Dr. Ho** (NO. 106CV00726)
- 229 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245847 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 1** (NO. 106CV00726)
- 230 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245848 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 2 to Preclude Any Reference to the Prior Cpt Litigations** (NO. 106CV00726)
- 231 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245849 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Motion in Limine to Preclude AU Optronics Corporation from Introducing Live Testimony from Mr. Kuang-Tao ("Surf") Sung or Other Evidence Allegedly Showing Dates of Conception** (NO. 106CV00726)
- 232 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 9541554 (Trial Motion, Memorandum and Affidavit) (D.Del. Jul. 17,

- 2009) **AU Optronics Corporation's and AU Optronics Corporation America's Opening Brief on Evidentiary Issues and Objections with Respect to Phase I of the Trial (June 2-8, 2009)** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 233 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 9541537 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 6, 2009) **AU Optronics Corporation's and AU Optronics Corporation America's Opening Brief on Evidentiary Issues and Objections with Respect to Phase II of the Trial (June 16 - 22, 2009)** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 234 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION, et al, Defendants., 2009 WL 9541540 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 6, 2009) **Plaintiff LG Display Co., Ltd's Opening Evidentiary Brief for Phase I (June 2-8, 2009) of the Trial Against Defendant AU Optronics Corporation** (NO. 06-726 (JJF))
- 235 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 9541542 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 6, 2009) **AU Optronics Corporation's and AU Optronics Corporation America's Opening Post-Trial Brief with Respect to Phase II of the Trial (June 16 -- 22, 2009)** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 236 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION, et al., Defendants., 2009 WL 9541543 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 6, 2009) **Plaintiff LG Display Co., Ltd's Post-Trial Brief for Phase I (June 2-8, 2009) of the Trial Against Defendant AU Optronics Corporation** (NO. 06-726 (JJF))
- 237 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 9541539 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 13, 2009) **AU Optronics Corporation's and AU Optronics Corporation America's Response to LGD's Evidentiary Brief for Phase I of the Trial (June 2 - 8, 2009)** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 238 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 9541546 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 13, 2009) **AU Optronics Corporation's and AU Optronics Corporation America's Response to LGD's Post-Trial Brief for Phase I of the Trial (June 2 - 8, 2009)** (NO. 06-726-JJF, 07-357-JJF, 08-355JJF)
- 239 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 9541547 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 21, 2009) **AU Optronics Corporation's and AU Optronics Corporation America's Responsive Brief on Evidentiary Issues and Objections with Respect to Phase II of the Trial (June 16 -- 22, 2009)** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 240 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA,

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- 241 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION, et al., Defendants., 2009 WL 9541544 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2009) **Plaintiff LG Display Co., Ltd.'s Response to AU Optronics Corp.'s Motion to Strike Portions of LGD's Phase I Responsive Post-Trial Brief (D.I. 1406) and Response to AUO's Proposed Findings of Fact and** (NO. 06-726 (JJF))
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- 243 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833076 (Trial Motion, Memorandum and Affidavit) (D.Del. May 10, 2010) **Memorandum of Law in Support of Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence** (NO. 106CV00726)
- 244 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2010 WL 2833077 (Trial Motion, Memorandum and Affidavit) (D.Del. May 27, 2010) **LG Display Co., Ltd.'s Opposition to Anvik Corporation's Motion for Limited Intervention to Obtain Copies of Evidence** (NO. 106CV00726)
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- 247 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 10097585 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 4, 2010) **Memorandum on Behalf of LG Display Co., Ltd. and LG Display America, Inc. in Opposition to AU Optronics Corporation's Motion for Permanent Injunction** (NO. 06-726-JJF)
- 248 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 10097584 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 17, 2010) **AU Optronics Corporation's Motion to Strike Portions of LG Display Co. Ltd.'s Declarations Submitted in Support of Its Opposition to Motion for Permanent Injunction** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
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- 251 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 7581308 (Trial Motion, Memorandum and Affidavit) (D.Del. Oct. 15, 2010) **Reply Memorandum On Behalf of LG Display Co., Ltd. and LG Display America, Inc. in Support of Their Motion to Strike the September 8,2010 Amended Declaration of Jonathan D. Putnam (D.I. 1595) and the** (NO. 06CV00726)
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- 258 John D. Villasenor, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877461 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of John D. V** (NO. 106CV00726)
- 259 Pochi Yeh, curriculum vitae filed in LG. Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889166 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of Pochi Yeh** (NO. 106CV00726)
- 260 Miltiadis K. Hatalis, curriculum vitae filed in LG,Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889167 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of Miltiadis K. Hatalis** (NO. 106CV00726)
- 261 David A. Eccles, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877462 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of David A. Eccles** (NO. 106CV00726)
- 262 Allan R. Kmetz, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877463 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of Allan R. Kmetz** (NO. 106CV00726)
- 263 George M. Pharr, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6882352 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of George M. Pharr** (NO. 106CV00726)
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- 266 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159025 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 267 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159026 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 268 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159027 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)

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- 270 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159029 (Trial Filing) (D.Del. Jul. 29, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 271 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159030 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 272 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159031 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 273 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159032 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 274 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159033 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 275 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159034 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 276 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159035 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 277 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159036 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 278 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159037 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 279 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159038 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 280 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159039 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 281 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159040 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 282 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159041 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 283 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159042 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 284 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159043 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 285 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159044 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 286 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159045 (Trial Filing) (D.Del. Aug. 6, 2008) **Claim Construction Chart** (NO. 06CV00726)
- 287 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159046 (Trial Filing) (D.Del. Aug. 6, 2008) **Joint Claim Construction Statement - Exhibit B LG Display USP 5,019,002** (NO. 06CV00726)
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- 293 LG. PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2008 WL 6159052 (Trial Filing) (D.Del. Aug. 6, 2008) **Joint Claim Construction Statement - Exhibit H LG Display USP 7,176,489** (NO. 06CV00726)
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- 302 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680918 (Expert Report and Affidavit) (D.Del. Aug. 10, 2008) **Declaration of Dr. John D. Villasenor in Support of Cmo's Opening Brief on Claim Construction** (NO. 06-726, JJF)
- 303 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680919 (Expert Report and Affidavit) (D.Del. Aug. 11, 2008) **Declaration of Dr. Miltiadis Hatalis in Support of Defendants Chi Mei Optoelectronics' Proposed Claim Constructions** (NO. 06-726, JJF)
- 304 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680921 (Expert Report and Affidavit) (D.Del. Aug. 29, 2008) **Declaration of Dr. George M. Pharr** (NO. 06-726, JJF)
- 305 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680920 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of David Eccles** (NO. 06-726, JJF)
- 306 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680922 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Dr. Allan R. Kmetz** (NO. 06-726, JJF)
- 307 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 5680923 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Dr. Pochi Yeh in Support of Responsive Brief** (NO. 06-726, JJF)
- 308 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics Usa, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants; LG Philips L, 2008 WL 8096469 (Expert Report and Affidavit) (D.Del. Sep. 4, 2008) **Declaration of Aris K. Silzars in Support of Auo's Response to Lgd's Claim Construction Briefing on Auo's Patents** (NO. 06-726-JJF, 07-357-JJF)
- 309 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants; Au Optronics Corporation, Plaintiff, v. LG Display Co., Ltd. and LG Display America, Inc., Defendants., 2008 WL 7505544 (Expert Report and Affidavit) (D.Del. Oct. 31, 2008) **Supplemental Declaration of Aris K. Silzars in Support of Au Optronics' Reply Brief**

- in Support of Its Motion to Compel LGD to Produce Complete GDS Files** (NO. 06-726-JJF, 07-357-JJF)
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- 311 LG DISPLAY CO., LTD., v. AU OPTRONICS CORPORATION and Au Optronics Corporation America et al., 2009 WL 5850939 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,019,002** (NO. 06CV00726)
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- 314 LG.PHILIPS LCD CO. LTD., v. CHI MEI OPTOELECTRONICS CORPORATION et al., 2009 WL 6869995 (Expert Report and Affidavit) (D.Del. Feb. 27, 2009) **Report of Expert Tsu-Jae King Liu, Ph.D. Regarding Invalidity of United States Patent Number 5,825,449** (NO. 06CV00726)
- 315 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 3740722 (Expert Report and Affidavit) (D.Del. Aug. 9, 2010) **Declaration of Dr. Aris K. Silzars in Support of Au Optronics Corporation's Reply Brief in Support of Its Motion for Permanent Injunction** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)
- 316 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2010 WL 3740723 (Expert Report and Affidavit) (D.Del. Sep. 8, 2010) **Amended Declaration of Jonathan D. Putnam in Support of AU Optronics Corporation's Reply Brief in Support of its Motion for Permanent Injunction** (NO. 06-726-JJF, 07-357-JJF, 08-355-JJF)

D.Del. Trial Motions, Memoranda And Affidavits

- 317 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002378 (Trial Motion, Memorandum and Affidavit) (D.Del. Aug. 11, 2008) **Memorandum In Support of Defendants Chi Mei Optoelectronics' Proposed Claim Constructions** (NO. 106CV00726)
- 318 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA,

- Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002380 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Auo's Response To Lgd's Claim Construction Briefing On Auo's Patents** (NO. 106CV00726)
- 319 LG DISPLAY CO., Ltd., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; CHI, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2008 WL 6002381 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Auo's Responsive Claim Construction Brief for Lg Display's Patents** (NO. 106CV00726)
- 320 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002382 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Response of Plaintiff Lg Display Co., Ltd. To Auo's Opening Claim Construction Brief** (NO. 106CV00726)
- 321 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002383 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Response of Plaintiff Lg Display Co., Ltd. To Cmo's Opening Claim Construction Brief** (NO. 106CV00726)
- 322 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002384 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 4, 2008) **Chi Mei Optoelectronics' Answering Memorandum Regarding Proposed Claim Constructions** (NO. 106CV00726)
- 323 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6002385 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 10, 2008) **Plaintiff LG Display Co., Ltd.'s Brief in Support of its Motion to Strike AU Optronics Corporation's Claim Construction Briefs** (NO. 106CV00726)
- 324 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2008 WL 6137427 (Trial Motion, Memorandum and Affidavit) (D.Del. Sep. 10, 2008) **Plaintiff Lg Display Co., Ltd.'s Brief in Support of Its Motion to Strike Chi Mei Optoelectronics Corporation's Claim Construction Briefs** (NO. 06-726, JJF)
- 325 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 1347872 (Trial Motion, Memorandum and Affidavit) (D.Del. Jan. 20, 2009) **Plaintiff Lg Display's Opening Brief in Support of its Motion to Compel Au Optronics Corporation and Chi Mei Optoelectronics Corporation to Provide Knowledgeable Deposition Witnesses and for Entry of** (NO. 106CV00726)
- 326 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 1347876 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 6, 2009) **Defendant Au Optronics Corporation's Answering Brief in Opposition to Plaintiff Lg Display Co., Ltd.'s Motion to Compel Auo to Provide Knowledgeable Deposition Witnesses and for Entry of Protective Or** (NO. 106CV00726)
- 327 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation, and Chi Mei Optoelectronics USA, Inc.,

- Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 1347859 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 17, 2009) **Defendant AU Optronics Corporation's Corrected Answering Brief in Opposition to Plaintiff's Motion to Strike Advice of Counsel Defense or in the Alternative, to Compel Production of Documents, Witness** (NO. 106CV00726)
- 328 LG DISPLAY CO., LTD., Plaintiff, v. AU OPIRONICS CORPORATION; AU Optronics Corporation America; Chi Mei Optoelectronics Corporation, and Chi Mei Optoelectronics USA, Inc., Defendants. AU OPTRONICS CORPORATION, Plaintiff, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 1347866 (Trial Motion, Memorandum and Affidavit) (D.Del. Feb. 17, 2009) **Defendant AU Optronics Corporation's Answering Brief in Opposition to Plaintiff Lg Display Co., Ltd.'s Motion to Compel Additional Correlation Charts, Technical Documents, and Damages Discovery** (NO. 106CV00726)
- 329 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and Lg Display America, Inc., Defendants., 2009 WL 3242276 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 3 to Exclude Evidence of LG Display Settlement Agreements** (NO. 106CV00726)
- 330 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and CHI Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242277 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 4 to Exclude Testimony By Lgd's Expert Witness Arthur Cobb Due to Failure to Comply with the Requirements of FRCP 26** (NO. 106CV00726)
- 331 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242278 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No. 5 to Preclude Lg Display from Presenting Evidence or Argument Regarding the Supplemental Expert Report of Dr. Elliott Schlam and to Strike the Report** (NO. 106CV00726)
- 332 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., LTD. and LG Display America, Inc., Defendants., 2009 WL 3242279 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Motion in Limine No.6 to Preclude Lg Display Form Presenting Evidence or Argument Regarding the Rebuttal Expert Reports of Dr. Elliott Schlam and to Strike the Reports** (NO. 106CV00726)
- 333 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants. CHI MEI OPTOELECTRONICS CORPORATION and Chi Mei Optoelectronics USA, Inc., Plaintiffs, v. LG DISPLAY CO., Ltd. and Lg Display America, Inc., Defendants., 2009 WL 3242281 (Trial Motion, Memorandum and Affidavit) (D.Del. May 8, 2009) **Chi Mei Optoelectronics' Memorandum of Points and Authorities in Support of Motion for Partial**

Summary Judgment Finding Non-Infringement of U.S. Patent 6,803,984 By Chi Mei Optoelectronics' Fab V (NO. 106CV00726)

- 334 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3242286 (Trial Motion, Memorandum and Affidavit) (D.Del. May 13, 2009) **LG Display Co., Ltd.'s Opposition to AUO's Motion to Supplement Briefing of Its Motion to Preclude LG Display's Reliance On Invalidating Prior Art** (NO. 106CV00726)
- 335 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; CHI, MEI Optoelectronics Corporation; and CHI MEI Optoelectronics USA, Inc., Defendants., 2009 WL 3242287 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **AUO's Opening Brief in Support of its Motion for Summary Judgment of Invalidity on all Claims of LGD's "274," "321 and "489 Patents** (NO. 106CV00726)
- 336 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3242288 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **Au Optronics' Motion in Limine No. 1 to Exclude any Opinion Testimony by LG Display's Technical Experts Regarding any Devices or Processes that they have not Analyzed** (NO. 106CV00726)
- 337 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245831 (Trial Motion, Memorandum and Affidavit) (D.Del. May 21, 2009) **Au Optronics' Motion in Limine No.3 to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance by Experts on the Prior Testimony of Expert Michael Keeley in the California CPT Litiga** (NO. 106CV00726)
- 338 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245832 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **AU Optronics' Motion in Limine No. 4 to Preclude Any Testimony from the Prior CPT Litigations, Including Reliance By Experts on the Prior Testimony of Dr. Holmberg, Mr. Castleberry, and Mr. Ho Lee in** (NO. 106CV00726)
- 339 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; AU Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245833 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Au Optronics' Motion in Limine No.5 to Preclude Lg Display from Introducing Any Evidence Regarding Yield Percentage and to Preclude Mr. Cobb from Offering Any Opinions Based Upon Yield Improvements** (NO. 106CV00726)
- 340 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245835 (Trial Motion, Memorandum and Affidavit) (D.Del. May 22, 2009) **Lg Display Co., Ltd.'s Motion in Limine No. 2 to Preclude Auo's Experts from Asserting Prior Art Against Lg Display's Patents that They Did not Address in Their Expert Reports** (NO. 106CV00726)
- 341 LG DISPLAY CO., LTD., Plaintiff, v. AU OPTRONICS CORPORATION; Au Optronics Corporation America; Chi, Mei Optoelectronics Corporation; and Chi Mei Optoelectronics USA, Inc., Defendants., 2009 WL 3245841 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 8,

- 2009) **Au Optronics' Response to Lg Display Co. Ltd.'s Motion in Limine No.5 to Preclude Introduction of Evidence or Opinion Testimony Concerning Electro-Static Discharge Repairs and Repair Costs** (NO. 106CV00726)
- 342 LG DISPLAY COMPANY, LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245843 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Motion in Limine No.5 to Preclude Auo from Introducing Evidence or Opinion Testimony Concerning Purported Electro-Static Discharge Repairs and Repair Costs** (NO. 106CV00726)
- 343 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245844 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 5** (NO. 106CV00726)
- 344 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245847 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **LG Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 1** (NO. 106CV00726)
- 345 LG DISPLAY CO., LTD., Plaintiff, v. CHI MEI OPTOELECTRONICS CORPORATION, et al., Defendants., 2009 WL 3245848 (Trial Motion, Memorandum and Affidavit) (D.Del. Jun. 12, 2009) **Lg Display Co., Ltd.'s Memorandum in Opposition to Auo's Motion in Limine No. 2 to Preclude Any Reference to the Prior Cpt Litigations** (NO. 106CV00726)

D.Del. Expert Resumes

- 346 John D. Villasenor, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877461 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of John D. V** (NO. 106CV00726)
- 347 Pochi Yeh, curriculum vitae filed in LG. Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889166 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of Pochi Yeh** (NO. 106CV00726)
- 348 Miltiadis K. Hatalis, curriculum vitae filed in LG,Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6889167 (Court-filed Expert Resume) (D.Del. Aug. 12, 2008) **Expert Resume of Miltiadis K. Hatalis** (NO. 106CV00726)
- 349 David A. Eccles, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877462 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of David A. Eccles** (NO. 106CV00726)
- 350 Allan R. Kmetz, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6877463 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of Allan R. Kmetz** (NO. 106CV00726)
- 351 George M. Pharr, curriculum vitae filed in LG.Philips LCD Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2008 WL 6882352 (Court-filed Expert Resume) (D.Del. Sep. 4, 2008) **Expert Resume of George M. Pharr** (NO. 106CV00726)
- 352 Tsu-Jae King Liu, curriculum vitae filed in Lg. Philips Lcd Co. Ltd. v. Chi Mei Optoelectronics Corporation et al, 2010 WL 5817594 (Court-filed Expert Resume) (D.Del. Mar. 2, 2010) **Expert**

Resume of Tsu-Jae King Liu (NO. 106CV00726)

D.Del.

- 353 LG.PHILIPS LCD CO. LTD. v. CHI MEI OPTOELECTRONICS CORPORATION ET AL, NO. 1:06cv00726 (Docket) (D.Del. Dec. 1, 2006)
354 AU OPTRONICS CORPORATION v. LG.PHILIPS LCD CO. LTD. ET AL, NO. 1:07cv00357 (Docket) (D.Del. Jun. 6, 2007)

Patent Family

- 355 ARRAY SUBSTRATE FOR LIQUID CRYSTAL DISPLAY, INCLUDES DUMMY CONDUCTIVE PATTERNS ARRANGED BETWEEN CONNECTION PADS AND PIXEL ELECTRODES, Derwent World Patents Legal 2002-674166

Assignments

- 356 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 008, (DATE RECORDED: May 18, 2007)
357 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 017, (DATE RECORDED: Dec 21, 2005)

Patent Status Files

- .. Request for Re-Examination, (OG DATE: May 25, 2010)

Docket Summaries

- 359 AU OPTRONICS CORPORATION v. LG.PHILIPS LCD CO. LTD. ET AL, (D.DEL. Jun 06, 2007) (NO. 1:07CV00357), (35 USC 271 PATENT INFRINGEMENT)
360 AU OPTRONICS CORPORATION v. LG.PHILIPS LCD CO., LTD., (W.D.WIS. Mar 08, 2007) (NO. 3:07C00137), (PROPERTY RIGHTS; PATENT)

Prior Art (Coverage Begins 1976)

- © 361 LIQUID CRYSTAL DISPLAY DEVICE HAVING PERIPHERAL DUMMY LINES, US PAT 5285301 Assignee: Hitachi, Ltd., (U.S. PTO Utility 1994)
© 362 LIQUID CRYSTAL DISPLAY WITH ENHANCED GATE PAD PROTECTION AND METHOD OF MANUFACTURING THE SAME, US PAT 6163356 Assignee: LG Electronics, (U.S. PTO Utility 2000)



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
90/009,697 03/16/2010 6689629 67507-008Re-exam 5947

65358 7590 09/26/2014
WPAT, PC
INTELLECTUAL PROPERTY ATTORNEYS
8230 BOONE BLVD. SUITE 405
VIENNA, VA 22182

EXAMINER

NGUYEN, TUAN H

ART UNIT PAPER NUMBER

3992

MAIL DATE DELIVERY MODE

09/26/2014

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



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(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

SONG K. JUNG

MCKENNA LONG AND ALDRIDGE LLP

1900 K STREET, NW

WASHINGTON, DC 20006

***EX PARTE* REEXAMINATION COMMUNICATION TRANSMITTAL FORM**

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

| | | | |
|---|--------------------|-----------------------------------|--|
| Notice of Intent to Issue Ex Parte Reexamination Certificate | Control No. | Patent Under Reexamination | |
| | 90/009,697 | 6689629 | |
| | Examiner | Art Unit | AIA (First Inventor to File) Status |
| TUAN H. NGUYEN | 3992 | No | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. Prosecution on the merits is (or remains) closed in this *ex parte* reexamination proceeding. This proceeding is subject to reopening at the initiative of the Office or upon petition. Cf. 37 CFR 1.313(a). A Certificate will be issued in view of
 - (a) Patent owner's communication(s) filed: _____.
 - (b) Patent owner's failure to file an appropriate timely response to the Office action mailed: _____.
 - (c) Patent owner's failure to timely file an Appeal Brief (37 CFR 41.31).
 - (d) The decision on appeal by the Board of Patent Appeals and Interferences Court dated 28 May 2014
 - (e) Other: _____.
2. The Reexamination Certificate will indicate the following:
 - (a) Change in the Specification: Yes No
 - (b) Change in the Drawing(s): Yes No
 - (c) Status of the Claim(s):
 - (1) Patent claim(s) confirmed: _____.
 - (2) Patent claim(s) amended (including dependent on amended claim(s)): 1,3,5-9,11 and 14-16
 - (3) Patent claim(s) canceled: 2,4,10,12 and 13.
 - (4) Newly presented claim(s) patentable: 17.
 - (5) Newly presented canceled claims: _____.
 - (6) Patent claim(s) previously currently disclaimed: _____
 - (7) Patent claim(s) not subject to reexamination: _____.
3. A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
4. Note the attached statement of reasons for patentability and/or confirmation. Any comments considered necessary by patent owner regarding reasons for patentability and/or confirmation must be submitted promptly to avoid processing delays. Such submission(s) should be labeled: "Comments On Statement of Reasons for Patentability and/or Confirmation."
5. Note attached NOTICE OF REFERENCES CITED (PTO-892).
6. Note attached LIST OF REFERENCES CITED (PTO/SB/08 or PTO/SB/08 substitute).
7. The drawing correction request filed on _____ is: approved disapproved.
8. Acknowledgment is made of the priority claim under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the certified copies have
 - been received.
 - not been received.
 - been filed in Application No. _____.
 - been filed in reexamination Control No. _____.
 - been received by the International Bureau in PCT Application No. _____.

* Certified copies not received: _____.
9. Note attached Examiner's Amendment.
10. Note attached Interview Summary (PTO-474).
11. Other: _____.

All correspondence relating to this reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of this Office action.

| | |
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| | |
|--|--|

cc: Requester (if third party requester)

DETAILED ACTION

Brief Summary of Proceedings

1. The present application is being examined under the pre-AIA first to invent provisions.
2. Claims 1-16 of U.S. Patent 6,689,629 (hereafter "the '629 Patent") are subject to this reexamination proceeding. On 06/06/2012, a final Office action was mailed, which rejected claims 1, 3, 5-9, 11, 14-17. Claims 2, 4, 10, 12, 13 were canceled and claim 17 was added in the previous response dated 05/18/2011. A Notice of Appeal was filed 09/06/2012, with a subsequent Appeal Brief filed 03/18/2013, and an Examiner's Answer was mailed on 01/24/2014. With this, each of original claims 1, 3, 5-9, 11, 14-16, and new claim 17 of the '629 Patent were subject to appeal, whereby claims 1, 9, and 17 are independent.
3. A Decision on Appeal by the Patent Trial and Appeal Board ("PTAB") was mailed on 05/28/2014, which reversed the rejections of claims 1, 3, 5-9, 11, 14-17.
4. With this, claims 1, 3, 5-9, 11, 14-17 are deemed patentable.
5. In this regard, 35 U.S.C. 307 states:
35 U.S.C. 307 Certificate of patentability, unpatentability, and claim cancellation.
(a) In a reexamination proceeding under this chapter, when the time for appeal has

Art Unit: 3992

expired or any appeal proceeding has terminated, the Director will issue and **publish a certificate canceling any claim of the patent finally determined to be unpatentable, confirming any claim of the patent determined to be patentable**, and incorporating in the patent any proposed amended or new claim determined to be patentable. [Emphasis added].

STATEMENT OF REASONS FOR PATENTABILITY AND/OR CONFIRMATION

The following is an examiner's statement of reasons for patentability and/or confirmation of the claims found patentable in this reexamination proceeding:

Claims 1, 3, 5-9, 11, 14-17 are confirmed as patentable.

Regarding independent claims 1, 9 and 17 for the reasons discussed in the Decision dated 05/28/2014 by Patent Trial and Appeal Board, the claim is deemed allowable. As the Patent Trial Appeal Board stated on page 8 of their Decision, the requisite showing of the claimed "the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings." which is neither taught nor suggested from the references of record.

Thus, for those reasons indicated by the Patent Trial and Appeal Board, claims 1, 3, 5-9, 11, 14-17 are confirmed as patentable.

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Any comments considered necessary by PATENT OWNER regarding the above statement must be submitted promptly to avoid processing delays. Such submission by the patent owner should be labeled: "Comments on Statement of Reasons for Patentability and/or Confirmation" and will be placed in the reexamination file.

Conclusion

8. ALL correspondence relating to this ex parte reexamination proceeding should be directed as follows:

Please mail any communications to:

Attn: Mail Stop "Ex Parte Reexam" Central Reexamination Unit Commissioner for Patents
P. O. Box 1450
Alexandria VA 22313-1450

Please FAX any communications to:

(571) 273-9900
Central Reexamination Unit

Please hand-deliver any communications to: Customer Service Window

Attn: Central Reexamination Unit
Randolph Building, Lobby Level
401 Dulany Street
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Reexamination Legal Advisor or Examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

Application/Control Number: 90/009,697

Page 5

Art Unit: 3992

Signed:

/Tuan H. Nguyen/

Tuan H. Nguyen
Primary Examiner
Central Reexamination Unit 3992

Conferees:

/Minh Nguyen/
Primary Examiner
CRU, AU 3992

/SUDHANSHU PATHAK/
Supervisory Patent Examiner, Art Unit 3992




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BIB DATA SHEET


CONFIRMATION NO. 5947

| | | | | | |
|---|---|-------------------------|---|--|--------------------------------|
| SERIAL NUMBER 90/009,697 | FILING or 371(c) DATE 03/16/2010 RULE | CLASS 438 | GROUP ART UNIT 3992 | ATTORNEY DOCKET NO. 67507-008Re-exam | |
| APPLICANTS INVENTORS 6689629, Residence Not Provided; AU OPTRONICS CORP(OWNER), HSINCHU, TAIWAN; SONG K. JUNG (3RD PTY REQ.), WASHINGTON, DC; MCKENNA LONG & ALDRIDGE, LLP, WASHINGTON, DC ** CONTINUING DATA ***** This application is a REX of 10/068,500 02/05/2002 PAT 6689629 ** FOREIGN APPLICATIONS ***** JAPAN 2001-029587 02/06/2001 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** | | | | | |
| Foreign Priority claimed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 35 USC 119(a-d) conditions met <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Verified and Acknowledged <u>/TUAN H NGUYEN/</u> Examiner's Signature | <input type="checkbox"/> Met after Allowance Initials _____ | STATE OR COUNTRY | SHEETS DRAWINGS | TOTAL CLAIMS 16 | INDEPENDENT CLAIMS 2 |
| ADDRESS WPAT, PC INTELLECTUAL PROPERTY ATTORNEYS 8230 BOONE BLVD. SUITE 405 VIENNA, VA 22182 UNITED STATES | | | | | |
| TITLE ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE | | | | | |
| FILING FEE RECEIVED 2520 | FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following: | | <input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit | | |

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| Issue Classification  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

| <input checked="" type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47 | | | | | | | | | | | | | | | |
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| NONE | | Total Claims Allowed: | |
| | | 12 | |
| (Assistant Examiner) | (Date) | O.G. Print Claim(s) | O.G. Print Figure |
| /TUAN H NGUYEN/ Primary Examiner. Art Unit 3992 | 9/10/14 | 1 | 1 |
| (Primary Examiner) | (Date) | | |

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| Reexamination  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Certificate Date | Certificate Number C1 |

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| Requester Correspondence Address: | <input type="checkbox"/> Patent Owner | <input checked="" type="checkbox"/> Third Party |
|--|--|--|

SONG K. JUNG
MCKENNA LONG AND ALDRIDGE LLP
1900 K STREET, NW
WASHINGTON, DC 20006

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|---|---------------------------|----------------------|
| LITIGATION REVIEW <input checked="" type="checkbox"/> | TN (examiner initials) | 09/10/2014 (date) |
| Case Name | | Director Initials |
| Closed 1:07cv357 Au Optronics Corp. v. Lg. Philips Lcd Co Ltd | | |
| Closed 1:07cv137 Au Optronics Corp. v. Lg. Philips Lcd Co. Lt | | |
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| COPENDING OFFICE PROCEEDINGS | |
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| TYPE OF PROCEEDING | NUMBER |
| 1. No concurrent proceedings | |
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US006689629C1

(12) **EX PARTE REEXAMINATION CERTIFICATE** (10404th)

United States Patent

Tsujimura et al.

(10) **Number:** **US 6,689,629 C1**

(45) **Certificate Issued:** **Nov. 14, 2014**

(54) **ARRAY SUBSTRATE FOR DISPLAY, METHOD OF MANUFACTURING ARRAY SUBSTRATE FOR DISPLAY AND DISPLAY DEVICE USING THE ARRAY SUBSTRATE**

(58) **Field of Classification Search**
None
See application file for complete search history.

(75) Inventors: **Takatoshi Tsujimura**, Fujisawa (JP);
Atsuya Makita, Sagami-hara (JP);
Toshiaki Arai, Yokohama (JP)

(56) **References Cited**

To view the complete listing of prior art documents cited during the proceeding for Reexamination Control Number 90/009,697, please refer to the USPTO's public Patent Application Information Retrieval (PAIR) system under the Display References tab.

(73) Assignee: **AU Optronics Corporation**

Primary Examiner — Tuan H Nguyen

Reexamination Request:
No. 90/009,697, Mar. 16, 2010

Reexamination Certificate for:
Patent No.: **6,689,629**
Issued: **Feb. 10, 2004**
Appl. No.: **10/068,500**
Filed: **Feb. 5, 2002**

(57) **ABSTRACT**

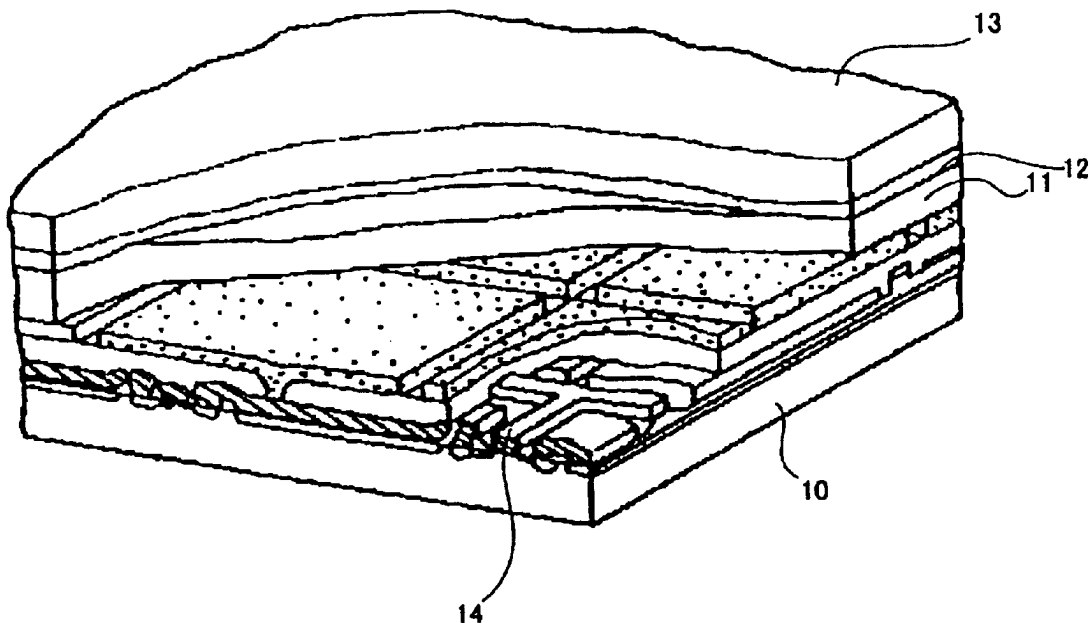
Disclosed is to provide an array substrate for display, a method of manufacturing the array substrate for display and a display device using the array substrate for display. The present invention is an array substrate for display, which includes: a thin film transistor array formed on an insulating substrate **1**; a plurality of wirings **23** and **24** arranged on the insulating substrate **1**; connection pads **25** and **27** arranged on unilateral ends of the wirings **23** and **24** and respectively connected therewith; and pixel electrodes **22**, wherein dummy conductive patterns **29** are arranged between the ends of the connection pads **25** and **27** and ends of the pixel electrodes **22**.

(30) **Foreign Application Priority Data**

Feb. 6, 2001 (JP) 2001-029587

(51) **Int. Cl.**
H01L 21/00 (2006.01)

(52) **U.S. Cl.**
USPC **438/25; 438/149; 438/73; 257/72; 257/748**



1

**EX PARTE
REEXAMINATION CERTIFICATE
ISSUED UNDER 35 U.S.C. 307**

THE PATENT IS HEREBY AMENDED AS
INDICATED BELOW.

Matter enclosed in heavy brackets [] appeared in the patent, but has been deleted and is no longer a part of the patent; matter printed in italics indicates additions made to the patent.

AS A RESULT OF REEXAMINATION, IT HAS BEEN DETERMINED THAT:

Claims 2, 4, 10, 12 and 13 are cancelled.

Claims 1, 3, 7, 9, 11 and 14-16 are determined to be patentable as amended.

Claims 5, 6 and 8, dependent on an amended claim, are determined to be patentable.

New claim 17 is added and determined to be patentable.

- 1. An array substrate for display, comprising:
[a layer of] an insulating substrate[, having an area];
a thin film transistor array [formed] on the insulating substrate;
a plurality of [wiring arranged] wirings on the insulating substrate, each wiring having a first end, [the] each wiring in communication with at least one [of the transistors] transistor in the thin film transistor array, and at least one of the wirings comprising at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
a plurality of connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
a plurality of pixel electrodes[.]; and
a plurality of dummy conductive patterns on the insulating substrate, wherein the plurality of dummy conductive patterns [comprising] comprises at least about 30% of [the] an area of the insulating substrate[, the dummy conductive patterns situated] between the connection pads and the pixel electrodes [such that], and the dummy [patters] conductive patterns are not in contact with any of the [wiring] wirings.

3. The array substrate for display according to claim [2] 1 wherein the lower layer wiring material is selected from the group consisting of aluminum and aluminum alloys.

7. The array substrate for display according to claim [4] 1 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

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- 9. A [meted] method for forming an array substrate for display, comprising:
forming a layer of an insulating substrate[, having an area];
forming a thin film transistor array [formed] on the insulating substrate;
forming a plurality of wirings on the insulating substrate, each wiring having a first end, [the] each wiring in communication with at least [on of the transistors] one transistor in the thin film transistor array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
forming a plurality of connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
forming a plurality of pixel electrodes[.]; and
forming a plurality of dummy conductive patterns on the insulating substrate, wherein the plurality of dummy conductive patterns [comprising] comprises at least about 30% of [the] an area of the insulating substrate[, the dummy patterns situated] between the connection pads and the pixel electrodes [such that], and the dummy [patters] conductive patterns are not in contact with any of the [wiring] wirings.

11. The method for forming an array substrate for display according to claim [10] 9 wherein the lower layer wiring material is selected from the group consisting of aluminum and aluminum alloys.

14. The method for forming an array substrate for display according to claim [13] 9 wherein the upper wiring material is selected from the group consisting of molybdenum and alloys thereof.

15. The method for forming an array substrate for display according to claim [12] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

16. The method for forming an array substrate for display according to claim [13] 9 wherein the upper layer wiring material is selected such that the upper layer wiring material does not become insoluble in an acid or alkaline etchant.

- 17. An array substrate for display, comprising:
an insulating substrate;
an array of thin film transistors on the insulating substrate;
a plurality of wirings on the insulating substrate, each wiring having a first end, and each wiring directly connecting with at least one thin film transistor in the array;
a plurality of connections pads, each connection pad contacting the first end of at most one of the plurality of wiring
a plurality of pixel electrodes; and
a plurality of dummy conductive patterns on the insulating substrate, wherein the plurality of dummy conductive patterns comprises at least about 30% of an area of the insulating substrate between the connection pads and the pixel electrodes.

* * * * *



DO NOT USE IN PALM PRINTER

(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

SONG K. JUNG

MCKENNA LONG AND ALDRIDGE LLP

1900 K STREET, NW

WASHINGTON, DC 20006

***EX PARTE* REEXAMINATION COMMUNICATION TRANSMITTAL FORM**

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

DETAILED ACTION

This Office Action in response to the Patent Owner's amendment and Remarks filed 01/26/2012.

Applicant's request for reconsideration of the finality of the rejection of the last Office action dated 11/14/2011 is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - Relevant Statutes

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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Detailed Analysis

1/. Claims 1, 3, 5-9, 11, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang in view of the '629 APA.

Regarding claims 1, 9:

Claims 1 and 9 were amended in the pending ex parte reexamination and reads as follows:

*1. (Amended) An array substrate for display, comprising:
a layer of an insulating substrate, having an area;
a thin film transistor array formed on the insulating substrate;
a plurality of [wiring] wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
pixel electrodes, and
dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy [patters] patterns are not in contact with any of the [wiring] wirings.*

*9. (Amended) A [meted] method for forming an array substrate for display, comprising:
forming a layer of an insulating substrate, having an area;
forming a thin film transistor array and a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, the wiring in communication with at least [on] one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive*

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materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
forming pixel electrodes, and
forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the [wiring] wirings.

Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display and method of forming an array substrate comprising the steps of forming a layer of insulating substrate 1 or 101 of glass or quartz having an area (col. 1:35-36, col. 6:29-30);

Zhang discloses plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 1 or 101 in a matrix with TFTs and pixel electrodes 102 at the crossover points of the scan and signal lines (col. 1:34-40, 6:40-44).

Zhang discloses the wirings (i.e. scan lines 106 and signal lines 105) are connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), forming connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); forming pixel electrodes 102 (Figs. 1, 16-17); forming dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See, Zhang, Figs. 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30

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microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Zhang discloses that the wirings can comprise of a three layer film of titanium/aluminum/titanium. Zhang fails to disclose *the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof* as now amended.

The '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed wiring having upper layer selected from the group consisting of molybdenum, chromium, tantalum, titanium over lower aluminum layer as suggested by the '629 APA in Zhang since the use of a harder to be oxidized material from the upper layer would protect the aluminum from oxidation and prevent the undercut of the lower conductive material.

Regarding claims 3, 5-8, 11, 14-16:

As noted above, the '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium. Since the upper wiring material is the same material for forming the upper wiring as in the instant patent claim; therefore, it inherently does not become insoluble in an acid or alkaline etchant.

2/. Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Zhang.

Regarding claim 17:

Claim 17 was amended in the pending ex parte reexamination and reads as follows:

17 (New) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

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Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display comprising a layer of insulating substrate 101 of glass or quartz having an area (col. 1:35-36, 6:29-30);

Zhang discloses a thin film transistor array 112 in pixel section 102, plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 101 in a matrix with TFTs and pixel electrodes at the crossover points of the scan and signal lines (col. 1:34-40, 6:34-44).

Zhang discloses a plurality of wirings (i.e. scan lines 106 and signal lines 105) are directly connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); pixel electrodes 102 (Figs. 1, 16-17); dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See Zhang, Figs. 1, 16, 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30 microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Response to Arguments

Patent Owner's arguments filed on 01/26/2012 have been fully considered but they are not persuasive.

With respect to the Patent Owner's argument in his Remarks with respect to Zhang does not disclose or teach the recited limitation of "the dummy conductive patterns situated between the connection pads and the pixel electrodes" as recited in claims 1, 9. Patent Owner's attention is respectfully directed to Zhang Figs. 1 and 4, region R3 and R4 which show the improvement from conventional LCD device shown in Figs. 16 and 17 where the signal lines 105 and scanning lines 106 extend to the exterior of the sealing material 107 so as to be connected to an external circuit or an external terminal (Col. 6:51-60). Although Fig. 1 does not show the connection pads at the end of the wirings connected to the exterior of the panel outside of the sealing ring 107; however, Fig.16, col. 1:45-46 clearly show first ends of each wiring connected to the extension terminal or pads 6. Figs. 1, 3, 4, 7, 8 show scanning lines 302 and signal lines 303 connect pixel electrodes 102 to external terminal or pads at extension side regions R3 and R4 through the sealing ring 107, and dummy wirings 304 formed in the sealing material 107 between the connection pads or external terminal formed outside the sealing ring 107 (as shown in Fig. 16) and the pixel electrodes 102. Note also col. 5:17-23, 9:55-60 which disclose the wirings 302 and 303 (as shown in Figs. 3, 4) are used for connecting the pixel section 102 to an external circuit or *external terminal*. It is agreed

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with the Patent Owner's argument that pads 303a for connecting wiring 303 to pixel electrodes 102 through wiring 305 as shown in Figs. 3, 4 and text on paragraph bridging col. 9-10 are located within the sealing region 107; however, external terminals or pads which is used for connecting wiring 302, 303 in regions R3, R4 to an external circuit as disclosed in col. 9:55-60 and shown in Fig. 16 are clearly outside the sealing region 107.

Summary

Claims 1, 3, 5-9, 11, 14-17 are rejected.

Claims 2, 4, 10, 12-13 were cancelled.

Conclusion

Extensions of time under 37 CFR 1.136(a) do not apply in reexamination proceedings. The provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Further, in 35 U.S.C. 305 and in 37 CFR 1.550(a), it is required that reexamination proceedings "will be conducted with special dispatch within the Office."

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Extensions of time in reexamination proceedings are provided for in 37

CFR 1.550(c). A request for extension of time must be filed on or before the day on which a response to this action is due, and it must be accompanied by the petition fee set forth in 37 CFR 1.17(g). The mere filing of a request will not effect any extension of time. An extension of time will be granted only for sufficient cause, and for a reasonable time specified.

The filing of a timely first response to this final rejection will be construed as including a request to extend the shortened statutory period for an additional month, which will be granted even if previous extensions have been granted. In no event however, will the statutory period for response expire later than SIX MONTHS from the mailing date of the final action. See MPEP § 2265.

Duty to Disclose

The patent owner is reminded of the continuing responsibility under 37 CFR 1.565(a) to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving Patent No. 6,689,629 throughout the course of this reexamination proceeding. The third party requester is also reminded of the ability to similarly apprise the Office of any such activity or proceeding throughout the course of this reexamination proceeding. See MPEP § § 2207, 2282 and 2286.

Art Unit: 3992

All correspondence relating to this *ex parte* reexamination proceeding should be directed:

By Mail to: Mail Stop *Ex Parte* Reexam
Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

By hand: Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at <https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>. EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS-Web submissions are “soft scanned” (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the “soft scanning” process is complete.

Any inquiry concerning this communication should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

Application/Control Number: 90/009,697
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Signed:

Conferees:

Tuan H. Nguyen
Primary Examiner
Central Reexamination Unit

Sue Lao

Minh Nguyen

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| Office Action in Ex Parte Reexamination | Control No. 90/009,697 | Patent Under Reexamination 6689629 |
| | Examiner TUAN H. NGUYEN | Art Unit 3992 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

- a Responsive to the communication(s) filed on 26 January 2012 . b This action is made FINAL.
c A statement under 37 CFR 1.530 has not been received from the patent owner.

A shortened statutory period for response to this action is set to expire 2 month(s) from the mailing date of this letter. Failure to respond within the period for response will result in termination of the proceeding and issuance of an *ex parte* reexamination certificate in accordance with this action. 37 CFR 1.550(d). **EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.550(c)**. If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.


Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. Notice of References Cited by Examiner, PTO-892. 3. Interview Summary, PTO-474.
2. Information Disclosure Statement, PTO/SB/08. 4. _____.

Part II SUMMARY OF ACTION

- 1a. Claims 1-16 are subject to reexamination.
1b. Claims _____ are not subject to reexamination.
2. Claims 2,4,10,12 and 13 have been canceled in the present reexamination proceeding.
3. Claims _____ are patentable and/or confirmed.
4. Claims 1, 3, 5-9, 11, 14-17 are rejected.
5. Claims _____ are objected to.
6. The drawings, filed on _____ are acceptable.
7. The proposed drawing correction, filed on _____ has been (7a) approved (7b) disapproved.
8. Acknowledgment is made of the priority claim under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some* c) None of the certified copies have
1 been received.
2 not been received.
3 been filed in Application No. _____.
4 been filed in reexamination Control No. _____.
5 been received by the International Bureau in PCT application No. _____.
* See the attached detailed Office action for a list of the certified copies not received.
9. Since the proceeding appears to be in condition for issuance of an *ex parte* reexamination certificate except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte* Quayle, 1935 C.D. 11, 453 O.G. 213.
10. Other: _____

cc: Requester (if third party requester)


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| Reexamination  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
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| Requester Correspondence Address: | <input type="checkbox"/> Patent Owner | <input checked="" type="checkbox"/> Third Party |
| SONG K. JUNG MCKENNA LONG AND ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006 | | |

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| Open 1:07cv357 Au Optronics Corp. v. Lg. Philips Lcd Co Ltd e | | |
| Closed 1:07cv137 Au Optronics Corp. v. Lg. Philips Lcd Co. Lt | | |
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| Search Notes  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

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| SEARCHED | | | |
| Class | Subclass | Date | Examiner |
| None | | 02/1/125 | TN |

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| SEARCH NOTES | | |
| Search Notes | Date | Examiner |
| Reviewed of patented file's prosecution history | 4/16/10 | TN |

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| Index of Claims  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

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| A | Appeal |
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Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

| CLAIM | | DATE | | | | | | | | |
|-------|----------|------------|--|------------|--|--|--|--|--|--|
| Final | Original | 02/28/2012 | | 02/15/2012 | | | | | | |
| | 1 | ✓ | | | | | | | | |
| | 2 | - | | | | | | | | |
| | 3 | ✓ | | | | | | | | |
| | 4 | - | | | | | | | | |
| | 5 | ✓ | | | | | | | | |
| | 6 | ✓ | | | | | | | | |
| | 7 | ✓ | | | | | | | | |
| | 8 | ✓ | | | | | | | | |
| | 9 | ✓ | | | | | | | | |
| | 10 | - | | | | | | | | |
| | 11 | ✓ | | | | | | | | |
| | 12 | - | | | | | | | | |
| | 13 | - | | | | | | | | |
| | 14 | ✓ | | | | | | | | |
| | 15 | ✓ | | | | | | | | |
| | 16 | ✓ | | | | | | | | |
| | 17 | ✓ | | | | | | | | |



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(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

SONG K. JUNG

MCKENNA LONG AND ALDRIDGE LLP

1900 K STREET, NW

WASHINGTON, DC 20006

***EX PARTE* REEXAMINATION COMMUNICATION TRANSMITTAL FORM**

REEXAMINATION CONTROL NO. 90/009,697.

PATENT NO. 6689629.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

| | | |
|--|-----------------------------------|--|
| Ex Parte Reexamination Advisory Action Before the Filing of an Appeal Brief | Control No. 90/009,697 | Patent Under Reexamination 6689629 |
| | Examiner TUAN H. NGUYEN | Art Unit 3992 |

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

THE PROPOSED RESPONSE FILED 06 August 2012 FAILS TO OVERCOME ALL OF THE REJECTIONS IN THE FINAL REJECTION MAILED 06 June 2012.

1. Unless a timely appeal is filed, or other appropriate action by the patent owner is taken to overcome all of the outstanding rejection(s), this prosecution of the present *ex parte* reexamination proceeding WILL BE TERMINATED and a Notice of Intent to Issue *Ex Parte* Reexamination Certificate will be mailed in due course. Any finally rejected claims, or claims objected to, will be CANCELLED.

THE PERIOD FOR RESPONSE IS EXTENDED TO RUN 3 MONTHS FROM THE MAILING DATE OF THE FINAL REJECTION. Extensions of time are governed by 37 CFR 1.550(c).

NOTICE OF APPEAL

2. An Appeal Brief is due two months from the date of the Notice of Appeal filed on _____ to avoid dismissal of the appeal. See 37 CFR 41.37(a). Extensions of time are governed by 37 CFR 1.550(c). See 37 CFR 41.37(e).

AMENDMENTS

3. The proposed amendment(s) filed after a final action, but prior to the date of filing a brief, will not be entered because:
- (a) They raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) They raise the issue of new matter (see NOTE below);
 - (c) They are not deemed to place the proceeding in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _ (See 37 CFR 1.116 and 41.33(a)).

4. Patent owner's proposed response filed _____ has overcome the following rejection(s): _____
5. The proposed new or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
6. For purposes of appeal, the proposed amendment(s) a) will not be entered, or b) will be entered and an explanation of how the new or amended claim(s) would be rejected is provided below or appended.
The status of the claim(s) is (or will be) as follows:
Claim(s) patentable and/or confirmed: _____
Claim(s) objected to: _____
Claim(s) rejected: _____
Claim(s) not subject to reexamination: _____

AFFIDAVIT OR OTHER EVIDENCE

7. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because patent owner failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
8. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence fails to overcome all rejections under appeal and/or appellant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
9. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

10. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
11. Note the attached Information Disclosure Statement(s), PTO/SB/08, Paper No(s) _____.
12. Other: _____.

cc: Requester (if third party requester)

Continuation of 10. Patent Owner, for the first time after Final rejection, argues about "a single substrate", "dummy patterns comprising at least about 30% of the area of the insulating substrate", and "both dummy patterns and wirings located on the same layer" in his Remarks, pages 7-12.

- With respect to "a single (or the same) substrate" , and " both dummy patterns and wiring are on the same layer" , nowhere in the instant patent claims requires the connection pads formed on the same substrate, and both dummy patterns and wiring formed on the same layer as alleged.

- With respect to the argument of "dummy patterns comprising at least about 30% of the area of the insulating substrate", the dummy patterns formed all over the regions R1-R4 surrounding the display section 102 as shown by Zhang in Figs. 1, 4 would consider at least about 30% of the area of the substrate; moreover, the claim recites "a layer of an insulating substrate, having an area" does not necessarily mean the recited "area" occupied the whole substrate's surface. The instant specification does not define the claimed area, and on col. 5, line 66 to col. 6, line 1 discloses "the dummy conductive patterns 29 can be 30% or more on the area of a specified surface", this clearly confirms that the "area" as claimed does not cover the whole substrate surface but only a specified portion of the surface, and Zhang's dummy patterns could be considered as comprising at least 30% of any specified area of the insulating substrate as claimed.

-With respect to "dummy patterns situated between the connection pads and the pixel electrodes", it is believed to be answered by the Examiner in the Final rejection, regardless of whether the pads are formed on the same substrate or not since such limitation is not recited in the instant patent claims (in fact, Zhang, Fig. 16, in which Fig. 1 is improved from at regions R1-R2, show pads 6 at regions R3-R4 formed on the same substrate).



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DETAILED ACTION

This Office Action in response to the Patent Owner's Arguments/ Remarks filed 04/23/2012.

Claim Rejections - Relevant Statutes

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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Detailed Analysis

1/. Claims 1, 3, 5-9, 11, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang in view of the '629 APA.

Regarding claims 1, 9:

Claims 1 and 9 were amended in the pending ex parte reexamination and reads as follows:

1. (Amended) An array substrate for display, comprising:
a layer of an insulating substrate, having an area;
a thin film transistor array formed on the insulating substrate;
a plurality of [wiring] wirings arranged on the insulating substrate, each wiring having a first end, the wiring in communication with at least one of the transistors in the thin film array, and at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, wherein the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;
connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
pixel electrodes, and
dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy [patters] patterns are not in contact with any of the [wiring] wirings.

9. (Amended) A [meted] method for forming an array substrate for display, comprising:
forming a layer of an insulating substrate, having an area;
forming a thin film transistor array and a plurality of wirings [formed] on the insulating substrate, each wiring having a first end, the wiring in communication with at least [on] one of the transistors in the thin film array, wherein at least one of the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof;

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*forming connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;
forming pixel electrodes, and
forming dummy conductive patterns, the dummy conductive patterns comprising at least about 30% of the area of the insulating substrate, the dummy patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the [wiring] wirings.*

Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display and method of forming an array substrate comprising the steps of forming a layer of insulating substrate 1 or 101 of glass or quartz having an area (col. 1:35-36, col. 6:29-30);

Zhang discloses plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 1 or 101 in a matrix with TFTs and pixel electrodes 102 at the crossover points of the scan and signal lines (col. 1:34-40, 6:40-44).

Zhang discloses the wirings (i.e. scan lines 106 and signal lines 105) are connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), forming connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); forming pixel electrodes 102 (Figs. 1, 16-17); forming dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See, Zhang, Figs. 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30

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microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Zhang discloses that the wirings can comprise of a three layer film of titanium/aluminum/titanium. Zhang fails to disclose *the wirings comprises at least an upper layer and a lower layer of conductive materials, and the upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium and alloys thereof* as now amended.

The '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed wiring having upper layer selected from the group consisting of molybdenum, chromium, tantalum, titanium over lower aluminum layer as suggested by the '629 APA in Zhang since the use of a harder to be oxidized material from the upper layer would protect the aluminum from oxidation and prevent the undercut of the lower conductive material.

Regarding claims 3, 5-8, 11, 14-16:

As noted above, the '629 APA, col. 1:26-39 discloses a lower layer wiring material of aluminum and an upper layer wiring material is selected from the group consisting of molybdenum, chromium, tantalum, titanium. Since the upper wiring material is the same material for forming the upper wiring as in the instant patent claim; therefore, it inherently does not become insoluble in an acid or alkaline etchant.

2/. Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Zhang.

Regarding claim 17:

Claim 17 was amended in the pending ex parte reexamination and reads as follows:

17 (New) An array substrate for display, comprising:

a layer of an insulating substrate, having an area;

a thin film transistor array formed on the insulating substrate;

a plurality of wirings arranged on the insulating substrate, each wiring having a first end, the wiring directly connects with at least one of the transistors in the thin film array;

connections pads, each connection pad contacting the first end of at most one of the plurality of wirings;

pixel electrodes, and

dummy conductive patterns, the dummy patterns comprising at least about 30% of the area of the insulating substrate, the dummy conductive patterns situated between the connection pads and the pixel electrodes such that the dummy patterns are not in contact with any of the wirings.

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Zhang, Figs. 1 and 16-17 discloses an array substrate for a liquid crystal display comprising a layer of insulating substrate 101 of glass or quartz having an area (col. 1:35-36, 6:29-30);

Zhang discloses a thin film transistor array 112 in pixel section 102, plurality of wirings (i.e. scan lines 106 and signal lines 105) is formed on the insulating substrate 101 in a matrix with TFTs and pixel electrodes at the crossover points of the scan and signal lines (col. 1:34-40, 6:34-44).

Zhang discloses a plurality of wirings (i.e. scan lines 106 and signal lines 105) are directly connected to the TFTs. (col. 1:34-40, 3:32-40, Figs. 1 and 16-17), connection pads (Pads 6 as shown in Fig. 16 in which Figs. 17 and 1 are improved from) contacting the first end of at most one of the plurality of wirings (i.e. scan lines 106 and signal lines 105, col. 1:45-47, 6:51-60, Figs. 1, 16, 17 regions R3, R4); pixel electrodes 102 (Figs. 1, 16-17); dummy conductive pattern 304 located between the pixel section 102 and the connection pads (or external terminal) 6 (See Zhang, Figs. 1, 16, 3, 4, regions R3, R4, and col. 4:13-20, 9:42-64, paragraph bridging col. 10-11). Further, the dummy wirings are not in contact with the wirings. Zhang also discloses that, for example, the distance between wiring is 50 microns and that the dummy wirings are 30 microns leaving only 10 microns between the wiring and dummy wiring (See, e.g., Zhang, 10:7-17). Thus, the dummy patterns would comprise at least 30% of the area.

Response to Arguments

Patent Owner's arguments filed on 04/23/2012 have been fully considered but they are not persuasive.

Contrary to the Patent Owner's conclusion in his Remarks, page 7, next to last paragraph that since "the Office is agreed with Patentee that Zhang's invention as shown in the relevant figures does disclose the connection pads located within the sealing region (Office Action, page 8, last line, and page 9, 1st paragraph), and since the connection pads are within the sealed area, Zhang's invention as shown in the relevant figures does not disclose the dummy conductive patterns located between the connection pads and the pixel electrodes"; in fact, the examiner only "agreed with the Patent Owner's argument that pads 303a for connecting wiring 303 to pixel electrodes 102 through wiring 305 as shown in Figs. 3, 4 and text on paragraph bridging col. 9-10 are located within the sealing region 107; however, external terminals or pads which is used for connecting wiring 302,303 in regions R3, R4 to an external circuit as disclosed in col. 9:55-60 and shown in Fig. 16 are clearly outside the sealing region 107 (emphasis added)". Patent Owner tried to ignore the fact that regions R3 and R4 as shown on the right and bottom sides of drawing figure 1 having scanning line 106 and signal line 105 extend to the exterior of the sealing region 17, and figures 3, 4, 7, 8 show scanning lines 302 and signal lines 303 (correspond to the scanning line 106 and signal line 105 respectively as shown in Fig. 1) connect pixel electrodes 102 to external

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terminal or pads at side regions R3 and R4 through the sealing ring 107 (col. 5, lines 17-22, col. 6, lines 51-56, and col. 8, lines 8-18) and dummy wirings 304 formed in the sealing material 107 between the connection pads or external terminal formed outside the sealing ring 107 (as shown in Fig. 16) and the pixel electrodes 102. Note on col. 1, lines 44-46, and col. 9, lines 55-59 for teaching the formation of external terminal at the ends of those wirings in order to connect with a peripheral circuit.

In order to connecting scanning lines 302 and signal lines 303 at regions R3 and R4 to the external circuit outside the sealing region 107, connection pads or extension terminals 6 at the ends of those wirings as show in Fig. 16 must be presented. Note in Figs. 16 and 17 at right and bottom sides of the drawing with wirings extend to the outside of the sealing material 5 or 17 for connecting to the peripheral circuits are the same as wirings 106 and 105 at regions R3 and R4 shown in Fig. 1 without the connection pads 6 for simplicity.

Contrary to the Patent owner's argument on page 8, second paragraph that Zhang, Fig. 17 teaches moving the connection pads within the sealing region to accommodate connecting the peripheral drive circuits within the sealing region. Zhang discloses the moving of the peripheral drive circuits only at regions R1 and R2 of Fig. 1, Zhang does not teach moving all the peripheral circuits and connection pads into the sealing region, particularly at region R3 and R4.

Fig. 1 which is an improved from Figs. 16 and 17 with the peripheral drive circuit moved inside the sealing region 107 only at regions R1 and R2. Regions R3 and R4 are

Art Unit: 3992

still the same; therefore the connection pads 6 as shown in Fig. 16 are necessary for connecting with the external circuits (col. 9, lines 55-58, col. 12, lines 30-36).

With respect to the arguments on page 8 last paragraph to page 9, the examiner does not suggest to modify Zhang's invention by moving the connection pads outside the sealing region at region R1 and R2, but just point out that the connection pads 6 are inherently present and necessary for providing connections of wirings to the external circuits outside the sealing region at right and bottom sides of Fig. 16 correspond to regions R3 and R4 in Fig. 1 with wirings 105, 106 extend through sealing region 107 without connection pads for simplicity.

In Fig. 4, Zhang discloses the additional connection pads 303a located inside sealing region to facilitate connecting end portions of wiring 303 on the pixel section 102 side to the wirings extending from the pixel section 102 does not preclude the connection pads 6 at the other ends of wirings 303 for connecting the wiring to the external circuits outside the sealing region as shown in Fig. 16. Zhang does not teach or suggest moving all connection pads 6 into the sealing region, particularly at right and bottom sides of Fig. 16. Connection pads or extension terminals 6 at the ends of those wirings as show in Fig. 16 must be presented as disclosed on col. 1, lines 44-46, and col. 9, lines 55-59.

Summary

Claims 1, 3, 5-9, 11, 14-17 are rejected.

Claims 2, 4, 10, 12-13 were cancelled.

Conclusion

THIS ACTION IS MADE FINAL.

A shortened statutory period for response to this action is set to expire 2 months from the mailing date of this action.

Extensions of time under 37 CFR 1.136(a) do not apply in reexamination proceedings. The provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Further, in 35 U.S.C. 305 and in 37 CFR 1.550(a), it is required that reexamination proceedings "will be conducted with special dispatch within the Office."

Extensions of time in reexamination proceedings are provided for in 37 CFR 1.550(c). A request for extension of time must be filed on or before the day on which a response to this action is due, and it must be accompanied by the petition fee set forth in 37 CFR 1.17(g). The mere filing of a request will not effect any extension of time. An extension of time will be granted only for sufficient cause, and for a reasonable time specified.

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The filing of a timely first response to this final rejection will be construed as including a request to extend the shortened statutory period for an additional month, which will be granted even if previous extensions have been granted. In no event however, will the statutory period for response expire later than SIX MONTHS from the mailing date of the final action. See MPEP § 2265.

Duty to Disclose

The patent owner is reminded of the continuing responsibility under 37 CFR 1.565(a) to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving Patent No. 6,689,629 throughout the course of this reexamination proceeding. The third party requester is also reminded of the ability to similarly apprise the Office of any such activity or proceeding throughout the course of this reexamination proceeding. See MPEP §§ 2207, 2282 and 2286.

All correspondence relating to this *ex parte* reexamination proceeding should be directed:

By Mail to: Mail Stop *Ex Parte* Reexam
Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Art Unit: 3992

By FAX to: (571) 273-9900

Central Reexamination Unit

By hand: Customer Service Window

Randolph Building

401 Dulany Street

Alexandria, VA 22314

Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at <https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>. EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS-Web submissions are “soft scanned” (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the “soft scanning” process is complete.

Any inquiry concerning this communication should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.


Signed:

Conferees:

Tuan H. Nguyen
Primary Examiner
Central Reexamination Unit

Sue Lao

Minh Nguyen


| | | |
|---|--|---|
| Reexamination  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Certificate Date | Certificate Number |

| | | |
|--|--|--|
| Requester Correspondence Address: | <input type="checkbox"/> Patent Owner | <input checked="" type="checkbox"/> Third Party |
| SONG K. JUNG MCKENNA LONG AND ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006 | | |

| | | |
|---|---------------------------|----------------------|
| LITIGATION REVIEW <input checked="" type="checkbox"/> | TN (examiner initials) | 06/04/2012 (date) |
| Case Name | | Director Initials |
| Open 1:07cv357 Au Optronics Corp. v. Lg. Philips Lcd Co Ltd e | | |
| Closed 1:07cv137 Au Optronics Corp. v. Lg. Philips Lcd Co. Lt | | |
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| COPENDING OFFICE PROCEEDINGS | |
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| TYPE OF PROCEEDING | NUMBER |
| 1. None | |
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| Search Notes  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

| SEARCHED | | | |
|----------|----------|----------|----------|
| Class | Subclass | Date | Examiner |
| None | | 02/1/125 | TN |
| None | | 6/4/12 | TN |

| SEARCH NOTES | | |
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| Search Notes | Date | Examiner |
| Reviewed of patented file's prosecution history | 4/16/10 | TN |

| INTERFERENCE SEARCH | | | |
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| Class | Subclass | Date | Examiner |
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| Office Action in Ex Parte Reexamination | Control No. 90/009,697 | Patent Under Reexamination 6689629 |
| | Examiner TUAN H. NGUYEN | Art Unit 3992 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

- a Responsive to the communication(s) filed on 23 April 2012. b This action is made FINAL.
c A statement under 37 CFR 1.530 has not been received from the patent owner.

A shortened statutory period for response to this action is set to expire 2 month(s) from the mailing date of this letter. Failure to respond within the period for response will result in termination of the proceeding and issuance of an *ex parte* reexamination certificate in accordance with this action. 37 CFR 1.550(d). **EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.550(c)**. If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.


Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. Notice of References Cited by Examiner, PTO-892. 3. Interview Summary, PTO-474.
2. Information Disclosure Statement, PTO/SB/08. 4. _____.

Part II SUMMARY OF ACTION

- 1a. Claims 1-17 are subject to reexamination.
1b. Claims _____ are not subject to reexamination.
2. Claims 2,4,10,12 and 13 have been canceled in the present reexamination proceeding.
3. Claims _____ are patentable and/or confirmed.
4. Claims 1, 3, 5-9, 11, 14-17 are rejected.
5. Claims _____ are objected to.
6. The drawings, filed on _____ are acceptable.
7. The proposed drawing correction, filed on _____ has been (7a) approved (7b) disapproved.
8. Acknowledgment is made of the priority claim under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some* c) None of the certified copies have
1 been received.
2 not been received.
3 been filed in Application No. _____.
4 been filed in reexamination Control No. _____.
5 been received by the International Bureau in PCT application No. _____.
* See the attached detailed Office action for a list of the certified copies not received.
9. Since the proceeding appears to be in condition for issuance of an *ex parte* reexamination certificate except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte* Quayle, 1935 C.D. 11, 453 O.G. 213.
10. Other: _____

cc: Requester (if third party requester)

| | | |
|---|--|---|
| Index of Claims  | Application/Control No. 90009697 | Applicant(s)/Patent Under Reexamination 6689629 |
| | Examiner TUAN H NGUYEN | Art Unit 3992 |

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| ✓ | Rejected |
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| N | Non-Elected |
| I | Interference |

| | |
|---|-----------------|
| A | Appeal |
| O | Objected |

Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

| CLAIM | | DATE | | | | | | | |
|-------|----------|------------|--|------------|--|--|--|--|--|
| Final | Original | 02/28/2012 | | 06/04/2012 | | | | | |
| | 1 | ✓ | | ✓ | | | | | |
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| | 3 | ✓ | | ✓ | | | | | |
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| | 12 | - | | - | | | | | |
| | 13 | - | | - | | | | | |
| | 14 | ✓ | | ✓ | | | | | |
| | 15 | ✓ | | ✓ | | | | | |
| | 16 | ✓ | | ✓ | | | | | |
| | 17 | ✓ | | ✓ | | | | | |



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ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

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|--|-----------------------------------|--|
| Ex Parte Reexamination Advisory Action Before the Filing of an Appeal Brief | Control No. 90/009,697 | Patent Under Reexamination 6689629 |
| | Examiner TUAN H. NGUYEN | Art Unit 3992 |

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

THE PROPOSED RESPONSE FILED 19 September 2012 FAILS TO OVERCOME ALL OF THE REJECTIONS IN THE FINAL REJECTION MAILED 06 June 2012.

1. Unless a timely appeal is filed, or other appropriate action by the patent owner is taken to overcome all of the outstanding rejection(s), this prosecution of the present *ex parte* reexamination proceeding WILL BE TERMINATED and a Notice of Intent to Issue *Ex Parte* Reexamination Certificate will be mailed in due course. Any finally rejected claims, or claims objected to, will be CANCELLED.

THE PERIOD FOR RESPONSE IS EXTENDED TO RUN _____ MONTHS FROM THE MAILING DATE OF THE FINAL REJECTION. Extensions of time are governed by 37 CFR 1.550(c).

NOTICE OF APPEAL

2. An Appeal Brief is due two months from the date of the Notice of Appeal filed on 06 September 2012 to avoid dismissal of the appeal. See 37 CFR 41.37(a). Extensions of time are governed by 37 CFR 1.550(c). See 37 CFR 41.37(e).

AMENDMENTS

3. The proposed amendment(s) filed after a final action, but prior to the date of filing a brief, will not be entered because:
- (a) They raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) They raise the issue of new matter (see NOTE below);
 - (c) They are not deemed to place the proceeding in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet (See 37 CFR 1.116 and 41.33(a)).

4. Patent owner's proposed response filed _____ has overcome the following rejection(s): _____
5. The proposed new or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
6. For purposes of appeal, the proposed amendment(s) a) will not be entered, or b) will be entered and an explanation of how the new or amended claim(s) would be rejected is provided below or appended.
The status of the claim(s) is (or will be) as follows:
Claim(s) patentable and/or confirmed: _____
Claim(s) objected to: _____
Claim(s) rejected: _____
Claim(s) not subject to reexamination: _____

AFFIDAVIT OR OTHER EVIDENCE

7. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because patent owner failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
8. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence fails to overcome all rejections under appeal and/or appellant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
9. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

10. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
11. Note the attached Information Disclosure Statement(s), PTO/SB/08, Paper No(s) _____.
12. Other: _____.

cc: Requester (if third party requester)

Continuation of 3.(d) NOTE: The deletion of "having an area" in the first steps, and the insertion of -- on the insulating substrate --, and changing from "the" to -- an -- area in the last steps of newly amended claims 1, 9 and 17 raise new issues and/or issue of new matter that would require further consideration and/or search..

Continuation of 10. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: the instant specification does not define the claimed area is of 30% of the insulating substrate, col. 5, line 66 to col. 6, line 1 discloses "the dummy conductive pattern 29 can be 30% or more on the area of a specified surface", this clearly confirms that the "area" as claimed is only a specified portion of the surface, and Zhang's dummy patterns could be considered as comprising at least 30% of the specified area of the insulating substrate, not 30% of the whole substrate as claimed.