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Certified by

*David S. Kappas*

Under Secretary of Commerce  
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and Director of the United States  
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TITLE: **LIGHT EMITTING PANEL ASSEMBLIES**

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### **CROSS-REFERENCE TO RELATED APPLICATIONS**

This application is a division of U.S. Patent Application No. 10/784,527, filed February 23, 2004, which is a division of U.S. Patent Application No. 09/256,275, filed February 23, 1999, now U.S. Patent No. 6,712,481, dated  
10 March 30, 2004, which is a continuation-in-part of U.S. Patent Application No. 08/778,089, filed January 2, 1997, now U.S. Patent No. 6,079,838, dated June 27, 2000, which is a division of U.S. Patent Application No. 08/495,176, filed June 27, 1995, now U.S. Patent No. 5,613,751, dated March 25, 1997.

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### **BACKGROUND OF THE INVENTION**

This invention relates generally, as indicated, to light emitting panel assemblies each including a transparent panel member for efficiently conducting light, and controlling the light conducted by the panel member to be emitted from one or more light output areas along the length thereof.

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Light emitting panel assemblies are generally known. However, the present invention relates to several different light emitting panel assembly configurations which provide for better control of the light output from the panel assemblies and for more efficient utilization of light, which results in greater light output from the panel assemblies.

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### **SUMMARY OF THE INVENTION**

In accordance with one aspect of the invention, the light emitting panel assemblies include a light emitting panel member having a light transition area in which at least one light source is suitably mounted for transmission of light to the  
30 light input surface of the panel member.

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In accordance with another aspect of the invention, the light source is desirably embedded, potted or bonded to the light transition area to eliminate any air gaps, decrease surface reflections and/or eliminate any lens effect between the light source and light transition area, thereby reducing light loss and increasing the light output from the panel assembly.

In accordance with another aspect of the invention, the panel assemblies may include reflective or refractive surfaces for changing the path of a portion of the light, emitted from the light source, that would not normally enter the panel members at an acceptable angle that allows the light to remain in the panel members for a longer period of time and/or increase the efficiency of the panel members.

In accordance with another aspect of the invention, the light emitting panel members include a pattern of light extracting deformities or disruptions which provide a desired light output distribution from the panel members by changing the angle of refraction of a portion of the light from one or more light output areas of the panel members.

In accordance with still another aspect of the invention, the light source may include multiple colored light sources for supplying light to one or more light output areas, and for providing a colored or white light output distribution.

In accordance with yet another aspect of the invention, the panel assemblies include a transition area for mixing the multiple colored lights, prior to the light entering the panel members, in order to effect a desired colored or white light output distribution.

The various light emitting panel assemblies of the present invention are very efficient panel assemblies that may be used to produce increased uniformity and higher light output from the panel members with lower power requirements, and allow the panel members to be made thinner and/or longer, and/or of various shapes and sizes.

To the accomplishment of the foregoing and related ends, the invention then comprises the features hereinafter fully described and particularly pointed out in the claims, the following description and the annexed drawings setting forth in detail certain illustrative embodiments of the invention, these being indicative, however, of but several of the various ways in which the principles of the invention may be employed.

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## BRIEF DESCRIPTION OF THE DRAWINGS

In the annexed drawings:

Figs. 1 through 3 are schematic perspective views of three different forms of light emitting panel assemblies in accordance with this invention;

5        Fig. 4a is an enlarged plan view of a portion of a light output area of a panel assembly showing one form of pattern of light extracting deformities on the light output area;

10        Figs. 4b, c and d are enlarged schematic perspective views of a portion of a light output area of a panel assembly showing other forms of light extracting deformities formed in or on the light output area;

      Fig. 5 is an enlarged transverse section through the light emitting panel assembly of Fig. 3 taken generally on the plane of the line 5-5 thereof;

      Fig. 6 is a schematic perspective view of another form of light emitting panel assembly in accordance with this invention;

15        Fig. 7 is a schematic top plan view of another form of light emitting panel assembly in accordance with this invention;

      Fig. 8 is a schematic perspective view of another form of light emitting panel assembly in accordance with this invention;

20        Fig. 9 is a schematic top plan view of another form of light emitting panel assembly in accordance with this invention;

      Fig. 10 is a schematic top plan view of still another form of light emitting panel assembly in accordance with this invention;

      Fig. 11 is a side elevation view of the light emitting panel assembly of Fig. 10;

25        Fig. 11a is a fragmentary side elevation view showing a tapered or rounded end on the panel member in place of the prismatic surface shown in Figs. 10 and 11;

      Fig. 12 is a schematic top plan view of another form of light emitting panel assembly in accordance with this invention;

30        Fig. 13 is a schematic side elevation view of the light emitting panel assembly of Fig. 12; and

      Figs. 14 and 15 are schematic perspective views of still other forms of light emitting panel assemblies in accordance with this invention.

## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring now in detail to the drawings, and initially to Fig. 1, there is schematically shown one form of light emitting panel assembly 1 in accordance with this invention including a transparent light emitting panel 2 and one or more  
5 light sources 3 which emit light in a predetermined pattern in a light transition member or area 4 used to make the transition from the light source 3 to the light emitting panel 2, as well known in the art. The light that is transmitted by the light transition area 4 to the transparent light emitting panel 2 may be emitted along  
10 the entire length of the panel or from one or more light output areas along the length of the panel as desired to produce a desired light output distribution to fit a particular application.

In Fig. 1 the light transition area 4 is shown as an integral extension of one end of the light emitting panel 2 and as being generally rectangular in shape. However, the light transition area may be of other shapes suitable for embedding,  
15 potting, bonding or otherwise mounting the light source. Also, reflective or refractive surfaces may be provided to increase efficiency. Moreover, the light transition area 4 may be a separate piece suitably attached to the light input surface 13 of the panel member if desired. Also, the sides of the light transition area may be curved to more efficiently reflect or refract a portion of the light  
20 emitted from the light source through the light emitting panel at an acceptable angle.

Fig. 2 shows another form of light emitting panel assembly 5 in accordance with this invention including a panel light transition area 6 at one end of the light emitting panel 7 with sides 8, 9 around and behind the light source 3  
25 shaped to more efficiently reflect and/or refract and focus the light emitted from the light source 3 that impinges on these surfaces back through the light transition area 6 at an acceptable angle for entering the light input surface 18 at one end of the light emitting panel 7. Also, a suitable reflective material or coating 10 may be provided on the portions of the sides of the light transition  
30 areas of the panel assemblies of Figs. 1 and 2 on which a portion of the light impinges for maximizing the amount of light or otherwise changing the light that is reflected back through the light transition areas and into the light emitting panels.

The panel assemblies shown in Figs. 1 and 2 include a single light source 3, whereas Fig. 3 shows another light emitting panel assembly 11 in accordance with this invention including two light sources 3. Of course, it will be appreciated that the panel assemblies of the present invention may be provided with any  
5 number of light sources as desired, depending on the particular application.

The panel assembly 11 of Fig. 3 includes a light transition area 12 at one end of the light emitting panel 14 having reflective and/or refractive surfaces 15 around and behind each light source 3. These surfaces 15 may be appropriately shaped including for example curved, straight and/or faceted surfaces, and if  
10 desired, suitable reflective materials or coatings may be provided on portions of these surfaces to more efficiently reflect and/or refract and focus a portion of the light emitted for example from an incandescent light source which emits light in a 360° pattern through the light transition areas 12 into the light input surface 19 of the light emitting panel 14.

15 The light sources 3 may be mechanically held in any suitable manner in slots, cavities or openings 16 machined, molded or otherwise formed in the light transition areas of the panel assemblies. However, preferably the light sources 3 are embedded, potted or bonded in the light transition areas in order to eliminate any air gaps or air interface surfaces between the light sources and surrounding  
20 light transition areas, thereby reducing light loss and increasing the light output emitted by the light emitting panels. Such mounting of the light sources may be accomplished, for example, by bonding the light sources 3 in the slots, cavities or openings 16 in the light transition areas using a sufficient quantity of a suitable embedding, potting or bonding material 17. The slots, cavities or openings 16  
25 may be on the top, bottom, sides or back of the light transition areas. Bonding can also be accomplished by a variety of methods that do not incorporate extra material, for example, thermal bonding, heat staking, ultrasonic or plastic welding or the like. Other methods of bonding include insert molding and casting around the light source(s).

30 A transparent light emitting material of any suitable type, for example acrylic or polycarbonate, may be used for the light emitting panels. Also, the panels may be substantially flat, or curved, may be a single layer or multi-layers, and may have different thicknesses and shapes. Moreover, the panels may be

flexible, or rigid, and may be made out of a variety of compounds. Further, the panels may be hollow, filled with liquid, air, or be solid, and may have holes or ridges in the panels.

Each light source 3 may also be of any suitable type including, for  
5 example, any of the types disclosed in U.S. Patent Nos. 4,897,771 and  
5,005,108, assigned to the same assignee as the present application, the entire  
disclosures of which are incorporated herein by reference. In particular, the light  
sources 3 may be an arc lamp, an incandescent bulb which also may be colored,  
filtered or painted, a lens end bulb, a line light, a halogen lamp, a light emitting  
10 diode (LED), a chip from an LED, a neon bulb, a fluorescent tube, a fiber optic  
light pipe transmitting from a remote source, a laser or laser diode, or any other  
suitable light source. Additionally, the light sources 3 may be a multiple colored  
LED, or a combination of multiple colored radiation sources in order to provide a  
desired colored or white light output distribution. For example, a plurality of  
15 colored lights such as LEDs of different colors (red, blue, green) or a single LED  
with multiple colored chips may be employed to create white light or any other  
colored light output distribution by varying the intensities of each individual  
colored light.

A pattern of light extracting deformities or disruptions may be provided on  
20 one or both sides of the panel members or on one or more selected areas on one  
or both sides of the panel members, as desired. Fig. 4a schematically shows one  
such light surface area 20 on which a pattern of light extracting deformities or  
disruptions 21 is provided. As used herein, the term deformities or disruptions  
are used interchangeably to mean any change in the shape or geometry of the  
25 panel surface and/or coating or surface treatment that causes a portion of the  
light to be emitted. The pattern of light extracting deformities 21 shown in Fig. 4a  
includes a variable pattern which breaks up the light rays such that the internal  
angle of reflection of a portion of the light rays will be great enough to cause the  
light rays either to be emitted out of the panel through the side or sides on which  
30 the light extracting deformities 21 are provided or reflected back through the  
panel and emitted out the other side.

These deformities or disruptions 21 can be produced in a variety of  
manners, for example, by providing a painted pattern, an etched pattern, a

machined pattern, a printed pattern, a hot stamped pattern, or a molded pattern or the like on selected light output areas of the panel members. An ink or printed pattern may be applied for example by pad printing, silk screening, ink jet, heat transfer film process or the like. The deformities may also be printed on a sheet or film which is used to apply the deformities to the panel member. This sheet or film may become a permanent part of the light panel assembly for example by attaching or otherwise positioning the sheet or film against one or both sides of the panel member similar to the sheet or film 27 shown in Figs. 3 and 5 in order to produce a desired effect.

By varying the density, opaqueness or translucence, shape, depth, color, area, index of refraction, or type of deformities 21 on an area or areas of the panels, the light output of the panels can be controlled. The deformities or disruptions may be used to control the percent of light emitted from any area of the panels. For example, less and/or smaller size deformities 21 may be placed on panel areas where less light output is wanted. Conversely, a greater percentage of and/or larger deformities may be placed on areas of the panels where greater light output is desired.

Varying the percentages and/or size of deformities in different areas of the panel is necessary in order to provide a uniform light output distribution. For example, the amount of light traveling through the panels will ordinarily be greater in areas closer to the light source than in other areas further removed from the light source. A pattern of light extracting deformities 21 may be used to adjust for the light variances within the panel members, for example, by providing a denser concentration of light extracting deformities with increased distance from the light source 3 thereby resulting in a more uniform light output distribution from the light emitting panels.

The deformities 21 may also be used to control the output ray angle distribution of the emitted light to suit a particular application. For example, if the panel assemblies are used to provide a liquid crystal display backlight, the light output will be more efficient if the deformities 21 cause the light rays to emit from the panels at predetermined ray angles such that they will pass through the liquid crystal display with low loss.



Additionally, the pattern of light extracting deformities may be used to adjust for light output variances attributed to light extractions of the panel members. The pattern of light extracting deformities 21 may be printed on the light output areas utilizing a wide spectrum of paints, inks, coatings, epoxies, or the like, ranging from glossy to opaque or both, and may employ half-tone separation techniques to vary the deformity 21 coverage. Moreover, the pattern of light extracting deformities 21 may be multiple layers or vary in index of refraction.

Print patterns of light extracting deformities 21 may vary in shapes such as dots, squares, diamonds, ellipses, stars, random shapes, and the like, and are desirably .006 square inch per deformity/element or less. Also, print patterns that are 60 lines per inch or finer are desirably employed, thus making the deformities or shapes 21 in the print patterns nearly invisible to the human eye in a particular application thereby eliminating the detection of gradient or banding lines that are common to light extracting patterns utilizing larger elements. Additionally, the deformities may vary in shape and/or size along the length and/or width of the panel members. Also, a random placement pattern of the deformities may be utilized throughout the length and/or width of the panel members. The deformities may have shapes or a pattern with no specific angles to reduce moiré or other interference effects. Examples of methods to create these random patterns are printing a pattern of shapes using stochastic print pattern techniques, frequency modulated half tone patterns, or random dot half tones. Moreover, the deformities may be colored in order to effect color correction in the panel members. The color of the deformities may also vary throughout the panel members, for example to provide different colors for the same or different light output areas.

In addition to or in lieu of the patterns of light extracting deformities 21 shown in Fig. 4a, other light extracting deformities including prismatic surfaces, depressions or raised surfaces of various shapes using more complex shapes in a mold pattern may be molded, etched, stamped, thermoformed, hot stamped or the like into or on one or more areas of the panel member. Figs. 4b and 4c show panel areas 22 on which prismatic surfaces 23 or depressions 24 are formed in the panel areas, whereas Fig. 4d shows prismatic or other reflective or refractive

surfaces 25 formed on the exterior of the panel area. The prismatic surfaces, depressions or raised surfaces will cause a portion of the light rays contacted thereby to be emitted from the panel member. Also, the angles of the prisms, depressions or other surfaces may be varied to direct the light in different  
5 directions to produce a desired light output distribution or effect. Moreover, the reflective or refractive surfaces may have shapes or a pattern with no specific angles to reduce moiré or other interference effects.

As best seen in the cross sectional view of Fig. 5, a back reflector (including trans reflectors) 26 may be attached or positioned against one side of  
10 the panel member 14 of Fig. 3 using a suitable adhesive 28 or other method in order to improve light output efficiency of the panel assembly 11 by reflecting the light emitted from that side back through the panel for emission through the opposite side. Additionally, a pattern of light extracting deformities 21, 23, 24 and/or 25 may be provided on one or both sides of the panel member in order to  
15 change the path of the light so that the internal critical angle is exceeded and a portion of the light is emitted from one or both sides of the panel. Moreover, a transparent film, sheet or plate 27 may be attached or positioned against the side or sides of the panel member from which light is emitted using a suitable adhesive 28 or other method in order to produce a desired effect.

20 The member 27 may be used to further improve the uniformity of the light output distribution. For example, the member 27 may be a colored film, a diffuser, or a label or display, a portion of which may be a transparent overlay that may be colored and/or have text or an image thereon.

If adhesive 28 is used to adhere the back reflector 26 and/or film 27 to the  
25 panel, the adhesive is preferably applied only along the side edges of the panel, and if desired the end edge opposite the light transition areas 12, but not over the entire surface area or areas of the panel because of the difficulty in consistently applying a uniform coating of adhesive to the panel. Also, the adhesive changes the internal critical angle of the light in a less controllable manner than the air  
30 gaps 30 (see Fig. 5) which are formed between the respective panel surfaces and the back reflector 26 and/or film 27 when only adhered along the peripheral edges. Additionally, longer panel members are achievable when air gaps 30 are used. If adhesive were to be used over the entire surface, the pattern of

deformities could be adjusted to account for the additional attenuation in the light caused by the adhesive.

Referring further to Fig. 2, the panel assembly 5 shown therein also includes molded posts 31 at one or more corners of the panel 7 (four such posts being shown) which may be used to facilitate mounting of the panel assembly and providing structural support for other parts or components, for example, a display panel such as a liquid crystal display panel as desired.

Fig. 6 shows another form of light emitting panel assembly 32 in accordance with this invention including a panel member 33, one or more light sources 3, and one or more light output areas 34. In addition, the panel assembly 32 includes a tray 35 having a cavity or recess 36 in which the panel assembly 32 is received. The tray 35 may act as a back reflector as well as end edge and/or side edge reflectors for the panel 33 and side and/or back reflectors 37 for the light sources 3. Additionally, one or more secondary reflective or refractive surfaces 38 may be provided on the panel member 33 and/or tray 35 to reflect a portion of the light around one or more corners or curves in a non-rectangular shaped panel member 33. These secondary reflective/refractive surfaces 38 may be flat, angled, faceted or curved, and may be used to extract a portion of the light away from the panel member in a predetermined pattern. Fig. 6 also shows multiple light output areas 34 on the panel member that emit light from one or more light sources 3.

Fig. 7 is a schematic illustration of still another form of light emitting panel assembly 40 in accordance with this invention including a panel member 41 having one or more light output areas 42 and one or more light transition areas (mixing areas) 43 containing a plurality of light sources 3 at one or both ends of the panel. Each transition area mixes the light from one or more light sources having different colors and/or intensities. In this particular embodiment, each of the light sources 3 desirably employs three colored LEDs (red, blue, green) in each transition mixing area 43 so that the light from the three LEDs can be mixed to produce a desired light output color that will be emitted from the light output area 42. Alternatively, each light source may be a single LED having multiple colored chips bonded to the lead film. Also, two colored LEDs or a single LED having two colored chips may be used for a particular application. By varying the

intensities of the individual respective LEDs, virtually any colored light output or white light distribution can be achieved.

Fig. 8 shows yet another form of light emitting panel assembly 45 in accordance with this invention including a light emitting panel member 46 and a light source 3 in a light transition area 48 integral with one end of the panel member. In this particular embodiment, the panel member 46 is three-dimensionally curved, for example, such that light rays may be emitted in a manner that facilitates aesthetic design of a lighted display.

Fig. 9 schematically shows another form of light emitting panel assembly 50 in accordance with this invention, including a panel member 51 having multiple light output areas 52, and mounting posts and/or mounting tabs 53. This particular panel assembly 50 may serve as a structural member to support other parts or components as by providing holes or cavities 54, 55 in the panel member 51 which allow for the insertion of modular components or other parts into the panel member. Moreover, a separate cavity or recess 56 may be provided in the panel member 51 for receipt of a correspondingly shaped light transition area 57 having one or more light sources 3 embedded, bonded, cast, insert molded, epoxied, or otherwise mounted or positioned therein and a curved reflective or refractive surface 58 on the transition area 57 and/or wall of the cavity or recess 56 to redirect a portion of the light in a predetermined manner. In this way the light transition area 57 and/or panel member may be in the form of a separate insert which facilitates the easy placement of the light source in a modular manner. A reflector 58 may be placed on the reflective or refractive surface of the cavity or recess 56 or insert 57. Where the reflector 58 is placed on the reflective or refractive surface of the cavity or recess 56, the cavity or recess may act as a mold permitting transparent material from which the transition area 57 is made to be cast around one or more light sources 3.

Figs. 10 and 11 schematically show another form of light emitting panel assembly 60 in accordance with this invention including a panel member 61 having one or more light output areas 62. In this particular embodiment, an off-axis light transition area 63 is provided that is thicker in cross section than the panel member to permit use of one or more light sources 3 embedded or otherwise mounted in the light transition area that are dimensionally thicker than

the panel member. Also, a three-dimensional reflective surface 64 (Fig. 11) may be provided on the transition area 63. Moreover, a prism 65 (Fig. 11) or tapered, rounded, or otherwise shaped end 66 (Fig. 11a) may be provided at the end of the panel opposite the light sources 3 to perform the function of an end reflector.

- 5 The light sources 3 may be oriented at different angles relative to each other and offset to facilitate better mixing of the light rays 67 in the transition area 63 as schematically shown in Fig. 10 and/or to permit a shorter length transition area 63 to be used.

10 Figs. 12 and 13 schematically show still another form of light emitting panel assembly 70 in accordance with this invention which includes one or more light transition areas 71 at one or both ends of the panel member 72 each containing a single light source 73. The transition area or areas 71 shown in Figs. 12 and 13 collect light with multiple or three-dimensional surfaces and/or collect light in more than one plane. For example each transition area 71 shown  
15 in Figs. 12 and 13 has elliptical and parabolic shape surfaces 74 and 75 in different planes for directing the light rays 76 into the panel member at a desired angle.

Providing one or more transition areas at one or both ends of the panel member of any desired dimension to accommodate one or more light sources,  
20 with reflective and/or refractive surfaces on the transition areas for redirecting the light rays into the panel member at relatively low angles allows the light emitting panel member to be made much longer and thinner than would otherwise be possible. For example the panel members of the present invention may be made very thin, *i.e.*, 0.125 inch thick or less.

25 Fig. 14 schematically illustrates still another form of light emitting panel assembly 80 in accordance with this invention including a light emitting panel 81 and one or more light sources 3 positioned, embedded, potted, bonded or otherwise mounted in a light transition area 82 that is at an angle relative to the panel member 81 to permit more efficient use of space. An angled or curved  
30 reflective or refractive surface 83 is provided at the junction of the panel member 81 with the transition area 82 in order to reflect/refract light from the light source 3 into the body of the panel member 81 for emission of light from one or more light emitting areas 84 along the length of the panel member.

Fig. 15 schematically illustrates still another form of light emitting panel assembly 90 in accordance with this invention including a light transition area 91 at one or both ends of a light emitting panel member 92 containing a slot 93 for sliding receipt of an LED or other suitable light source 3. Preferably the slot 93 extends into the transition area 91 from the back edge 94, whereby the light source 3 may be slid and/or snapped in place in the slot from the back, thus allowing the transition area to be made shorter and/or thinner. The light source 3 may be provided with wings, tabs or other surfaces 95 for engagement in correspondingly shaped recesses or grooves 96 or the like in the transition area 91 for locating and, if desired, securing the light source in place. Also, the light source 3 may be embedded, potted, bonded or otherwise secured within the slot 93 in the light transition area 91 of the panel member 92. Light from a secondary light source 97 may be projected through the panel member 92 for indication or some other effect.

The various light emitting panel assemblies disclosed herein may be used for a great many different applications including for example LCD back lighting or lighting in general, decorative and display lighting, automotive lighting, dental lighting, phototherapy or other medical lighting, membrane switch lighting, and sporting goods and apparel lighting or the like. Also the panel assemblies may be made such that the panel members and deformities are transparent without a back reflector. This allows the panel assemblies to be used for example to front light an LCD or other display such that the display is viewed through the transparent panel members.

Although the invention has been shown and described with respect to certain preferred embodiments, it is obvious that equivalent alterations and modifications will occur to others skilled in the art upon the reading and understanding of the specification. The present invention includes all such equivalent alterations and modifications, and is limited only by the scope of the claims.

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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	GLOLP0108USAB
	First Inventor	Jeffery R. Parker
	Title	LIGHT EMITTING PANEL ...
	Express Mail Label No.	EV671713584US

<p style="text-align: center;"><b>APPLICATION ELEMENTS</b> <small>See MPEP chapter 600 concerning utility patent application contents.</small></p> <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> <b>Fee Transmittal Form</b> (e.g., PTO/SB/17) <small>(Submit an original and a duplicate for fee processing)</small></li> <li>2. <input type="checkbox"/> <b>Applicant claims small entity status.</b> <small>See 37 CFR 1.27.</small></li> <li>3. <input checked="" type="checkbox"/> <b>Specification</b> [Total Pages <u>18</u> ] <small>Both the claims and abstract must start on a new page (For information on the preferred arrangement, see MPEP 608.01(a))</small></li> <li>4. <input checked="" type="checkbox"/> <b>Drawing(s)</b> (35 U.S.C. 113) [Total Sheets <u>4</u> ] <input type="checkbox"/> Informal</li> <li>5. <b>Oath or Declaration</b> [Total Sheets <u>2</u> ]       <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</li> <li>b. <input type="checkbox"/> A copy from a prior application (37 CFR 1.63(d)) <small>(for continuation/divisional with Box 18 completed)</small> <ol style="list-style-type: none"> <li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> <small>Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small></li> </ol> </li> </ol> </li> <li>6. <input checked="" type="checkbox"/> <b>Application Data Sheet.</b> See 37 CFR 1.76</li> <li>7. <input type="checkbox"/> <b>CD-ROM or CD-R</b> in duplicate, large table or Computer Program (Appendix) <input type="checkbox"/> Landscape Table on CD</li> <li>8. <b>Nucleotide and/or Amino Acid Sequence Submission</b> <small>(if applicable, items a. - c. are required)</small> <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> Computer Readable Form (CRF)</li> <li>b. <input type="checkbox"/> Specification Sequence Listing on:           <ol style="list-style-type: none"> <li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li> <li>ii. <input type="checkbox"/> Paper</li> </ol> </li> <li>c. <input type="checkbox"/> Statements verifying identity of above copies</li> </ol> </li> </ol>	<p><b>ADDRESS TO:</b> Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450</p> <p style="text-align: center;"><b>ACCOMPANYING APPLICATION PARTS</b></p> <ol style="list-style-type: none"> <li>9. <input type="checkbox"/> <b>Assignment Papers</b> (cover sheet &amp; document(s)) Name of Assignee _____</li> <li>10. <input type="checkbox"/> <b>37 CFR 3.73(b) Statement</b> <input type="checkbox"/> <b>Power of Attorney</b> <small>(when there is an assignee)</small></li> <li>11. <input type="checkbox"/> <b>English Translation Document</b> (if applicable)</li> <li>12. <input type="checkbox"/> <b>Information Disclosure Statement</b> (PTO/SB/08 or PTO-1449) <input type="checkbox"/> Copies of citations attached</li> <li>13. <input type="checkbox"/> <b>Preliminary Amendment</b></li> <li>14. <input checked="" type="checkbox"/> <b>Return Receipt Postcard</b> (MPEP 503) <small>(Should be specifically itemized)</small></li> <li>15. <input type="checkbox"/> <b>Certified Copy of Priority Document(s)</b> <small>(if foreign priority is claimed)</small></li> <li>16. <input type="checkbox"/> <b>Nonpublication Request</b> under 35 U.S.C. 122(b)(2)(B)(i). <small>Applicant must attach form PTO/SB/35 or equivalent.</small></li> <li>17. <input checked="" type="checkbox"/> <b>Other Form</b> PTO-2038</li> </ol>
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18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

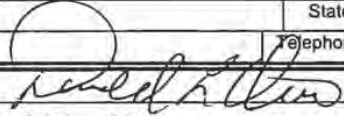
Continuation     Divisional     Continuation-in-part (CIP)    of prior application No.: 10/784,527

Prior application information:    Examiner Thomas M. Sember    Art Unit: 2875

**19. CORRESPONDENCE ADDRESS**

The address associated with Customer Number: 23908    OR     Correspondence address below

Name		Address	
City	State	Zip Code	
Country	Telephone	Fax	

Signature		Date	October 6, 2005
Name (Print/Type)	Donald L. Otto	Registration No. (Attorney/Agent)	22,125

This collection of information is required by 37 CFR 1.53(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 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.

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Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <h2 style="text-align: center;">FEE TRANSMITTAL</h2> <h3 style="text-align: center;">For FY 2005</h3>		<b>Complete if Known</b>	
		Application Number	
		Filing Date	herewith
		First Named Inventor	Jeffery R. Parker
		Examiner Name	
		Art Unit	
		Attorney Docket No.	GLOLP0108USAB
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27			
<b>TOTAL AMOUNT OF PAYMENT</b>	(\$)	1,400.00	

**METHOD OF PAYMENT** (check all that apply)

Check
  Credit Card
  Money Order
  None
  Other (please identify): \_\_\_\_\_

Deposit Account
 Deposit Account Number: 18-0988
 Deposit Account Name: Renner Otto Boisselle & Sklar LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17
  Credit any overpayments

**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.

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	\$1,000.00
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

**Total Claims**      **Extra Claims**      **Fee (\$)**      **Fee Paid (\$)**      **Multiple Dependent Claims**  
28 - 20 or HP = 8 x 50 = 400      **Fee (\$)**      **Fee Paid (\$)**  
 HP = highest number of total claims paid for, if greater than 20

**Indep. Claims**      **Extra Claims**      **Fee (\$)**      **Fee Paid (\$)**  
2 - 3 or HP = 0 x \_\_\_\_\_ = \_\_\_\_\_  
 HP = highest number of independent claims paid for, if greater than 3

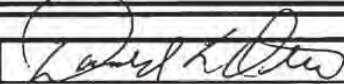
**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____	_____ / 50 = _____	(round up to a whole number) x _____	_____	_____

**4. OTHER FEE(S)**

	Fee (\$)	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)		
Other: _____		

<b>SUBMITTED BY</b>		
Signature		Registration No. <u>22,125</u> (Attorney/Agent)
Name (Print/Type)	<u>Donald L. Otto</u>	Telephone <u>216-621-1113</u>
		Date <u>October 6, 2005</u>

This collection of information is required by 37 CFR 1.136. 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 1.14. This collection is estimated to take 30 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.



WHAT IS CLAIMED IS:

1. A light emitting assembly comprising a tray that forms a cavity or recess, at least one light source located, mounted or positioned in the cavity or recess, and at least one sheet, film or substrate positioned over the cavity or  
5 recess for controlling the light emitted from the assembly to fit a particular application, wherein the tray acts as at least one of a back, side, and edge reflector and has one or more secondary flat, angled, faceted or curved reflective or refractive surfaces for reflecting or refracting at least a portion of the light emitted by the light source through the sheet, film or substrate in a predetermined  
10 pattern.
2. The assembly of claim 1 wherein the refractive or reflective surfaces are flat, planar or curved.
- 15 3. The assembly of claim 1 wherein the refractive or reflective surfaces are prismatic or lenticular surfaces.
4. The assembly of claim 1 wherein the refractive or reflective surfaces are quite small compared to the length and width of the tray.  
20
5. The assembly of claim 1 wherein the refractive or reflective surfaces are in close proximity or around and behind the light source.
- 25 6. The assembly of claim 1 wherein there are at least two light sources.
7. The assembly of claim 6 wherein each light source is positioned in close proximity to a group of the refractive or reflective surfaces.
- 30 8. The assembly of claim 6 wherein the at least two light sources are different color LEDs.

9. The assembly of claim 6 wherein the tray and the at least one sheet, film or substrate function together to improve uniformity of the light emitted from the assembly, reduce moiré or other interference effects, mix the light from multiple light sources, or change the output ray angle distribution of the light from the assembly.

10. The assembly of claim 6 wherein a portion of the light emitted from the light sources mixes in the cavity or recess.

11. The assembly of claim 10 wherein the sheet, film or substrate provides additional light mixing.

12. The assembly of claim 6 wherein the reflective or refractive surfaces promote mixing of the light from two or more light sources.

13. The assembly of claim 6 wherein there is at least one refractive or reflective surface corresponding to each light source.

14. The assembly of claim 1 wherein there is at least one sheet, film or substrate that is a diffuser, colored film or filter, label, transparent or semi-transparent overlay, label or display, reflector, polarizer or reflective polarizer.

15. The assembly of claim 1 wherein the at least one sheet, film or substrate has deformities for controlling the light output ray angle distribution to fit a particular application.

16. A light emitting assembly comprising a tray that forms a cavity or recess, at least two light sources located, mounted or positioned in the cavity or recess, and at least one sheet, film or substrate positioned over the cavity or recess for controlling the light emitted from the assembly to fit a particular application, wherein the tray acts as at least one of a back, side and edge reflector and has at least one secondary flat, angled, faceted or curved reflective

or refractive surface to facilitate better mixing of light rays to produce a desired light output color or uniformity.

17. The assembly of claim 16 wherein at least some of the light sources  
5 are different colored light sources.

18. The assembly of claim 17 wherein the secondary reflective or refractive surface promotes mixing of different color light to make white light.

10 19. The assembly of claim 16 wherein multiple light sources contain at least one light source of each of the colors red, green and blue.

20. The assembly of claim 16 wherein at least some of the light sources are LEDs.  
15

21. The assembly of claim 20 wherein at least some of the LEDs have multiple chips of different colors.

22. The assembly of claim 16 wherein there is at least one sheet, film  
20 or substrate that is a diffuser, colored film or filter, label, transparent or semi-transparent overlay, reflector, polarizer or reflective polarizer.

23. The assembly of claim 16 wherein the sheet, film or substrate is comprised of multiple layers.  
25

24. The assembly of claim 16 wherein there is at least one sheet, film or substrate that has deformities on at least one surface to control the light output ray angle distribution to fit a particular application.

30 25. The assembly of claim 24 wherein the deformities are depressions or raised surfaces.

26. The assembly of claim 24 wherein the deformities are prismatic or lenticular.

5 27. The assembly of claim 24 wherein the deformities vary or are random.

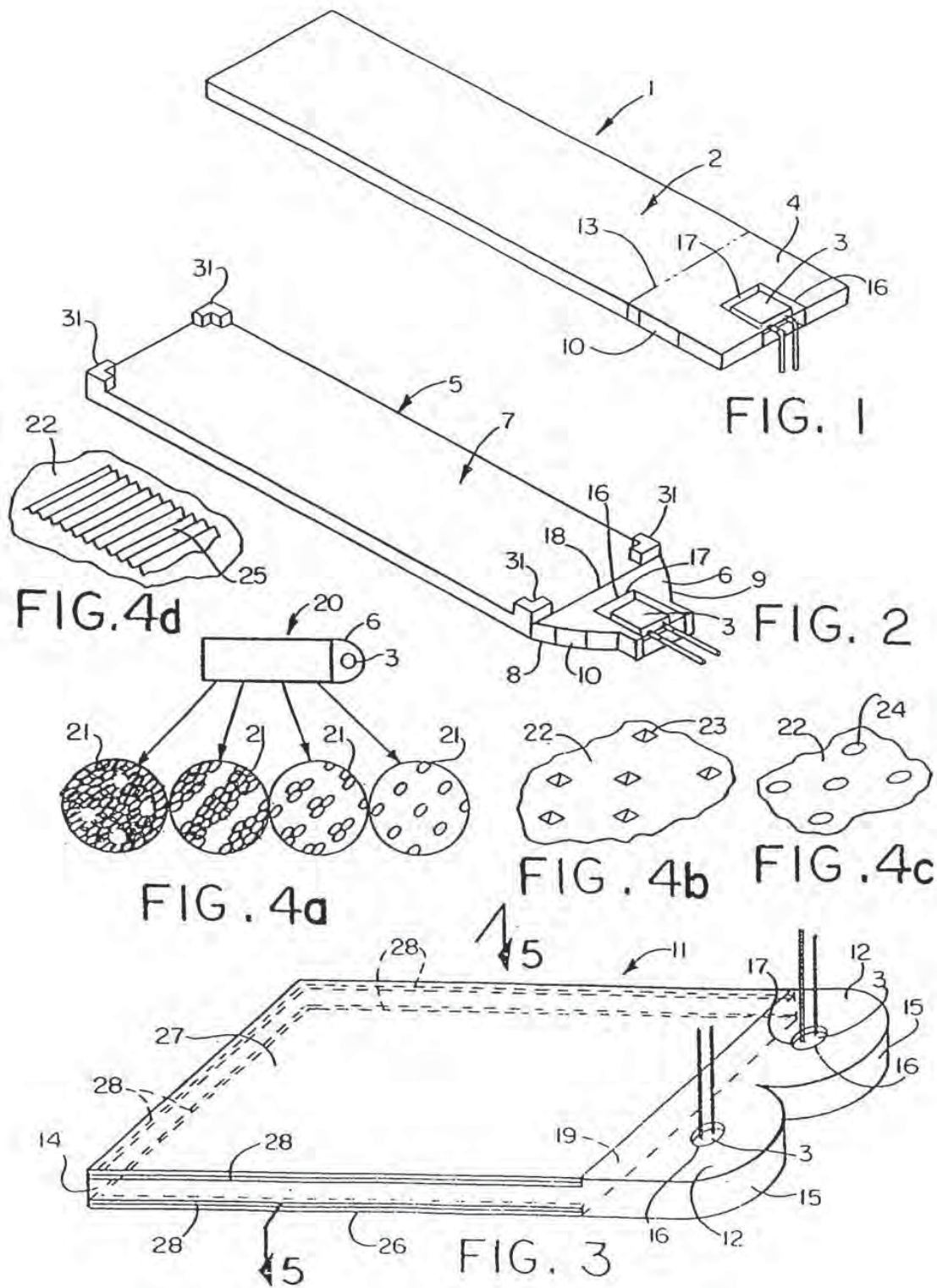
28. The assembly of claim 24 wherein at least some of the deformities are paints, inks or coatings.

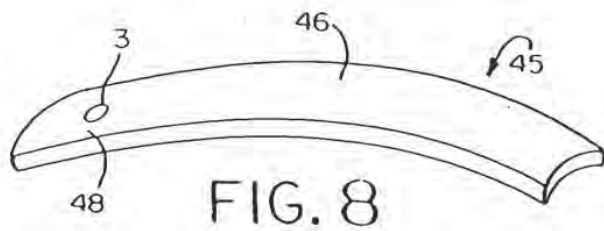
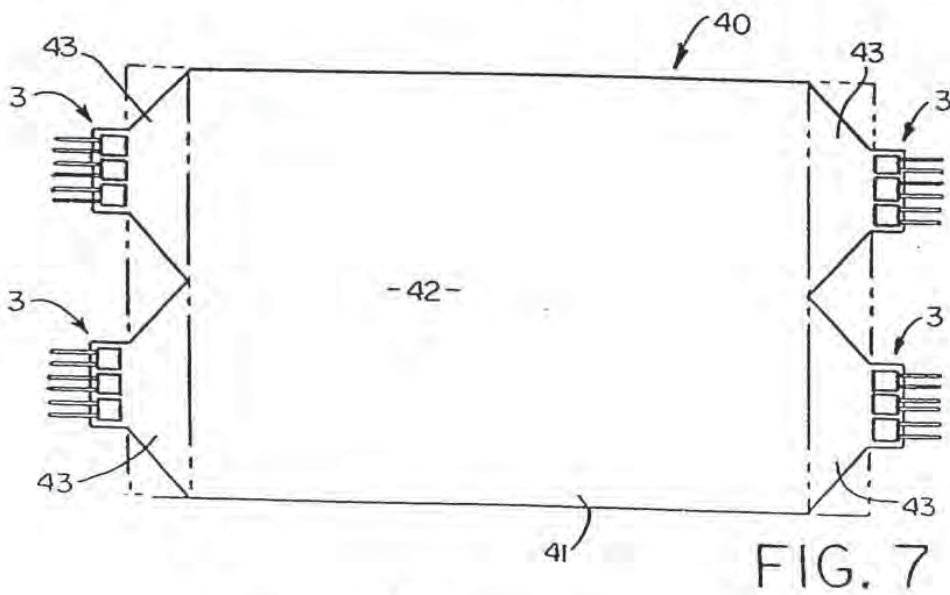
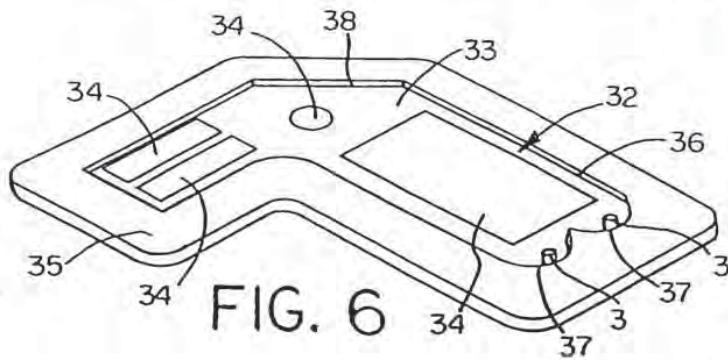
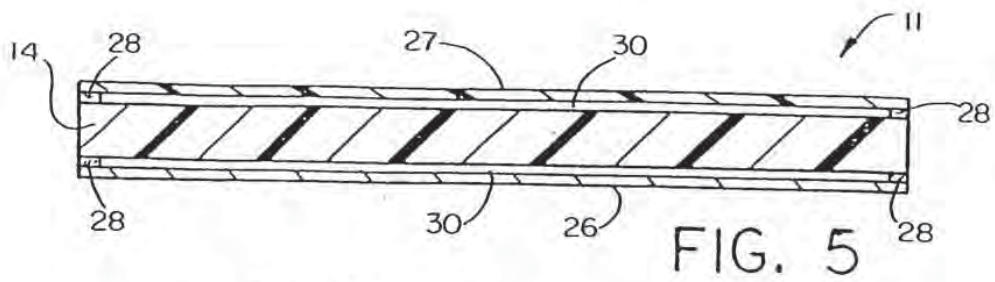
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## **ABSTRACT**

Light emitting assemblies include a tray that forms a cavity or recess containing one or more light sources. A sheet, film or substrate is positioned over the cavity or recess for controlling the light emitted from the assembly. The tray  
5 acts as a back, side or edge reflector, and has one or more secondary reflective or refractive surfaces.

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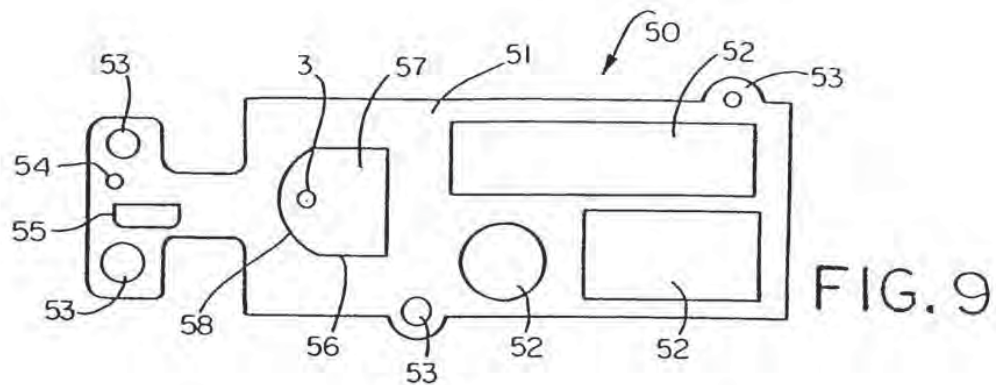


FIG. 9

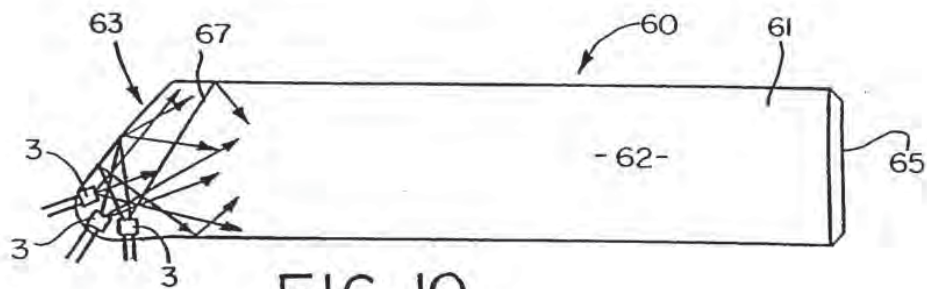


FIG. 10

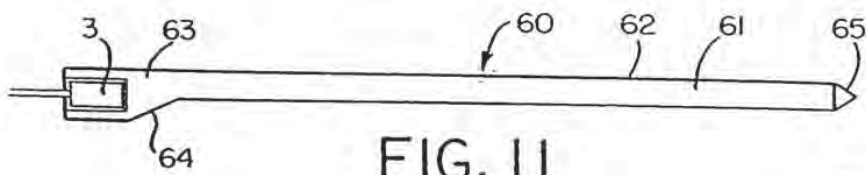


FIG. 11

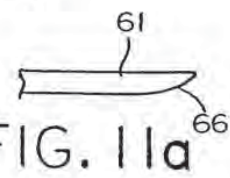


FIG. 11a

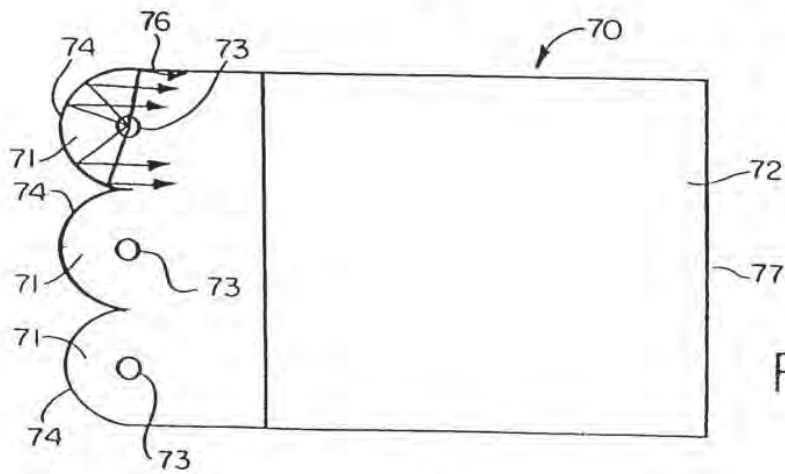


FIG. 12



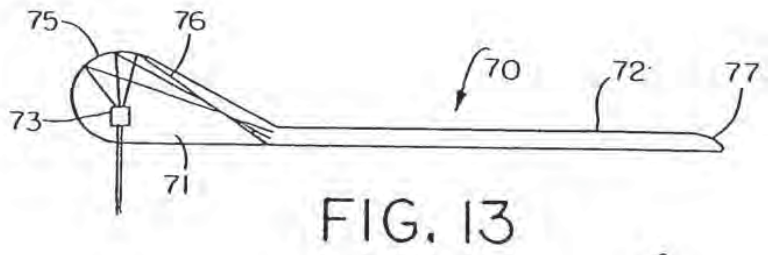


FIG. 13

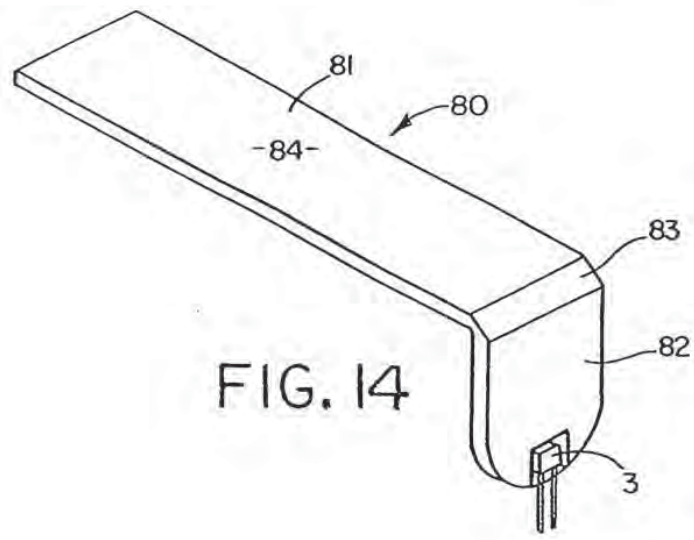


FIG. 14

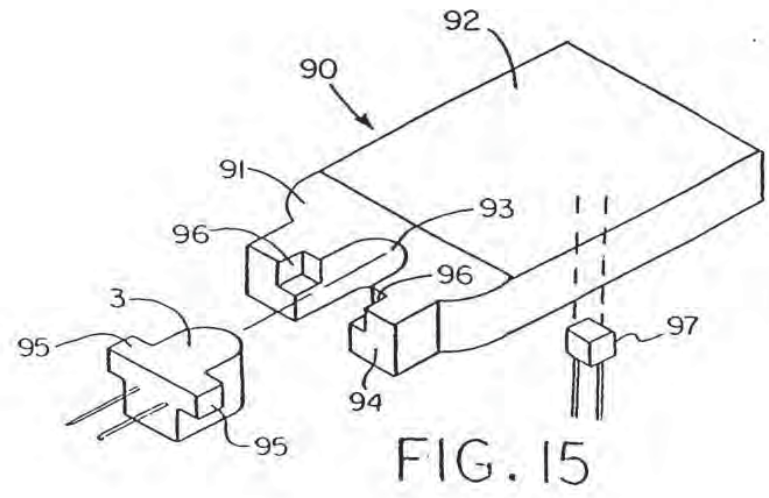


FIG. 15

**COMBINED DECLARATION AND POWER OF ATTORNEY  
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT)**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Title: **LIGHT EMITTING PANEL ASSEMBLIES**

the specification of which

is attached hereto, or

was filed as United States Application or Application No.:  
PCT International Application (give (Express Mail Label No.)  
Express Mail label number and deposit Filing Date:  
date if Application number not yet (Deposit Date)  
known): Amended on (if applicable):

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability as defined in Title 37, Code of Federal Regulations § 1.56(a).

**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. 120 AND/OR 35 U.S.C. 365(c)**

I hereby claim the benefit under 35 U.S.C. 120 and/or 35 U.S.C. 365(c) of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose material information as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Application No.	Filing Date	Patent Number
10/784,527	February 23, 2004	
09/256,275	February 23, 1999	6,712,481
08/778,089	January 2, 1997	6,079,838
08/495,176	June 27, 1995	5,613,751

**CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. 119(e)**

I hereby claim the benefit under 35 USC 119(e) of any United States provisional application(s) that is/are listed below

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Application No.	Filing Date

**POWER OF ATTORNEY**

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)

Name	Registration No.	Name	Registration No.
Donald L. Otto	22,125		

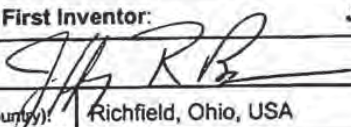
**Send Correspondence To:**

Donald L. Otto  
 Renner, Otto, Boisselle & Sklar, LLP  
 1621 Euclid Ave. - 19th Floor  
 Cleveland, Ohio 44115

**Direct Telephone Calls To:**

Name: Donald L. Otto  
 Tel. No: 216-621-1113  
 Fax No: 216-621-6165

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<b>Full Name of Sole or First Inventor:</b>		Jeffery R. Parker	
Inventor's signature:		Date:	10/4/05
Residence: (City & State/Country):	Richfield, Ohio, USA	Citizenship:	USA
Post Office Address:	3050 Whitetail Ct. Richfield, Ohio 44286		

<b>Full Name of Additional Joint Inventor (if any):</b>			
Inventor's signature:		Date:	
Residence: (City & State/Country):		Citizenship:	
Post Office Address:			

End of Declaration and Power of Attorney (D-US-1.FRM)

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PATENT APPLICATION SERIAL NO \_\_\_\_\_

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
FEE RECORD SHEET

10/11/2005 FFAMAI2 0000051 11244544

01 FC:1011	300.00 OP
02 FC:1111	500.00 OP
03 FC:1311	200.00 OP
04 FC:1202	400.00 OP

PTO-1556  
(5/87)

U.S. Government Printing Office: 2002 — 496-247/88023

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**PATENT APPLICATION FEE DETERMINATION RECORD**

Substitute for Form PTO-875 Effective December 8, 2004

Application or Docket Number

112-44574

**APPLICATION AS FILED - PART I**

(Column 1) (Column 2)

SMALL ENTITY

OR

OTHER THAN SMALL ENTITY

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(b), (d), or (e))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(a), (b), or (d))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(i))	28 minus 20 =	8
INDEPENDENT CLAIMS (37 CFR 1.16(n))	2 minus 3 =	-
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

RATE (\$)	FEE (\$)
N/A	150.00
N/A	\$250
N/A	\$100
X\$ 25 =	
X100 =	
+180=	
TOTAL	

RATE (\$)	FEE (\$)
N/A	300.00
N/A	\$500
N/A	\$200
X\$50 =	400
X200 =	
+360=	
TOTAL	1400

\* If the difference in column 1 is less than zero, enter "0" in column 2.

**APPLICATION AS AMENDED - PART II**

(Column 1) (Column 2) (Column 3)

SMALL ENTITY

OR

OTHER THAN SMALL ENTITY

AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(p))	Minus **	**
Independent (37 CFR 1.16(n))	Minus ***	***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

RATE (\$)	ADDITIONAL FEE (\$)
X\$ 25 =	
X100 =	
+180=	
TOTAL ADD'L FEE	

RATE (\$)	ADDITIONAL FEE (\$)
X\$50 =	
X200 =	
+360=	
TOTAL ADD'L FEE	

(Column 1) (Column 2) (Column 3)

AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(p))	Minus **	**
Independent (37 CFR 1.16(n))	Minus ***	***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

RATE (\$)	ADDITIONAL FEE (\$)
X\$ 25 =	
X100 =	
+180=	
TOTAL ADD'L FEE	

RATE (\$)	ADDITIONAL FEE (\$)
X\$50 =	
X200 =	
+360=	
TOTAL ADD'L FEE	

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. 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 1.14. 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 1460, Alexandria, VA 22313-1460.

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## Application Data Sheet

---

### Applicant Information

Inventor One Given Name:: Jeffery R.  
Family Name:: Parker  
Postal Address Line One:: 3050 Whitetail Ct.  
City:: Richfield  
State or Province:: Ohio  
Postal or Zip Code:: 44286  
Citizenship Country:: USA

### Correspondence Information

Customer N<sup>o</sup>:: 23908  
Phone number:: (216) 621-1113  
Fax number:: (216) 621-6165  
Electronic Mail:: dotto@rennerotto.com

### Application Information

Title Line One:: LIGHT EMITTING PANEL ASSEMBLIES  
Class:: 362  
Subclass:: 031  
Technology Center:: 2800  
Total Drawing Sheets:: 4  
Drawing Figure for Publication:: Figure 6  
Formal Drawings?:: Yes  
Application Type:: Utility  
Docket Number:: GLOLP0108USAB

### Representative Information

Representative Customer N<sup>o</sup>:: 23908

### Domestic Priority Information

This application is a:: DIV  
Application One:: 10/784,527  
Filing Date:: February 23, 2004

which is a:: DIV  
Application Two:: 09/256,275  
Filing Date:: February 23, 1999  
U.S. Pat. No.:: 6,712,481

which is a:: CIP  
Application Three:: 08/778,089  
Filing Date:: January 2, 1997  
U.S. Pat. No.:: 6,079,838

which is a:: DIV  
Application Four:: 08/495,176  
Filing Date:: June 27, 1995  
U.S. Pat. No.:: 5,613,751

#### **Foreign Priority Information**

#### **Assignee Information**

Assignee:: Solid State Opto Limited  
Postal Address Line One:: P.O. Box 957  
Postal Address Line Two:: Offshore Incorporations Centre  
City: Road Town, Tortola  
Country:: British Virgin Islands  
Postal or Zip Code::

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100605

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U.S. PTO

PTO/SB/05 (09-04)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	GLOLP0108USAB
	First Inventor	Jeffery R. Parker
	Title	LIGHT EMITTING PANEL ...
	Express Mail Label No.	EV671713584US

<b>APPLICATION ELEMENTS</b> <small>See MPEP chapter 600 concerning utility patent application contents.</small>	<b>ADDRESS TO:</b> Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> <b>Fee Transmittal Form</b> (e.g., PTO/SB/17)  <small>(Submit an original and a duplicate for fee processing)</small></li> <li>2. <input type="checkbox"/> <b>Applicant claims small entity status.</b>  <small>See 37 CFR 1.27.</small></li> <li>3. <input checked="" type="checkbox"/> <b>Specification</b> [Total Pages <u>18</u> ]  <small>Both the claims and abstract must start on a new page          (For information on the preferred arrangement, see MPEP 608.01(e))</small></li> <li>4. <input checked="" type="checkbox"/> <b>Drawing(s)</b> (35 U.S.C. 113) [Total Sheets <u>4</u> ]  <input type="checkbox"/> Informal</li> <li>5. <b>Oath or Declaration</b> [Total Sheets <u>2</u> ]             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</li> <li>b. <input type="checkbox"/> A copy from a prior application (37 CFR 1.63(d))  <small>(for continuation/divisional with Box 18 completed)</small> <ol style="list-style-type: none"> <li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b>  <small>Signed statement attached deleting inventor(s)                name in the prior application, see 37 CFR                1.63(d)(2) and 1.33(b).</small></li> </ol> </li> </ol> </li> <li>6. <input checked="" type="checkbox"/> <b>Application Data Sheet.</b> See 37 CFR 1.76</li> <li>7. <input type="checkbox"/> <b>CD-ROM or CD-R</b> in duplicate, large table or  <small>Computer Program (Appendix)</small>  <input type="checkbox"/> Landscape Table on CD</li> <li>8. <b>Nucleotide and/or Amino Acid Sequence Submission</b>  <small>(if applicable, items a. - c. are required)</small> <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> Computer Readable Form (CRF)</li> <li>b. <input type="checkbox"/> Specification Sequence Listing on:               <ol style="list-style-type: none"> <li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li> <li>ii. <input type="checkbox"/> Paper</li> </ol> </li> <li>c. <input type="checkbox"/> Statements verifying identity of above copies</li> </ol> </li> </ol>	<b>ACCOMPANYING APPLICATION PARTS</b> <ol style="list-style-type: none"> <li>9. <input type="checkbox"/> <b>Assignment Papers</b> (cover sheet &amp; document(s))  <small>Name of Assignee _____</small></li> <li>10. <input type="checkbox"/> <b>37 CFR 3.73(b) Statement</b> <input type="checkbox"/> <b>Power of Attorney</b>  <small>(when there is an assignee)</small></li> <li>11. <input type="checkbox"/> <b>English Translation Document</b> (if applicable)</li> <li>12. <input type="checkbox"/> <b>Information Disclosure Statement</b> (PTO/SB/08 or PTO-1449)  <input type="checkbox"/> Copies of citations attached</li> <li>13. <input type="checkbox"/> <b>Preliminary Amendment</b></li> <li>14. <input checked="" type="checkbox"/> <b>Return Receipt Postcard</b> (MPEP 503)  <small>(Should be specifically itemized)</small></li> <li>15. <input type="checkbox"/> <b>Certified Copy of Priority Document(s)</b>  <small>(if foreign priority is claimed)</small></li> <li>16. <input type="checkbox"/> <b>Nonpublication Request</b> under 35 U.S.C. 122(b)(2)(B)(i).  <small>Applicant must attach form PTO/SB/35 or equivalent.</small></li> <li>17. <input checked="" type="checkbox"/> <b>Other Form</b> PTO-2038</li> </ol>

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

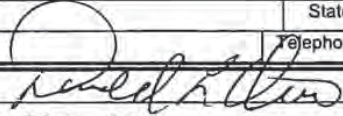
Continuation     Divisional     Continuation-in-part (CIP)    of prior application No.: 10/784,527

Prior application information:    Examiner Thomas M. Sember    Art Unit: 2875

**19. CORRESPONDENCE ADDRESS**

The address associated with Customer Number: 23908    OR     Correspondence address below

Name			
Address			
City	State	Zip Code	
Country	Telephone	Fax	

Signature		Date	October 6, 2005
Name (Print/Type)	Donald L. Otto	Registration No. (Attorney/Agent)	22,125

This collection of information is required by 37 CFR 1.53(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 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.*



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">For FY 2005</h3>		<b>Complete if Known</b>	
		Application Number	
		Filing Date	herewith
		First Named Inventor	Jeffery R. Parker
		Examiner Name	
		Art Unit	
		Attorney Docket No.	GLOLP0108USAB
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27			
<b>TOTAL AMOUNT OF PAYMENT</b>	(\$ ) 1,400.00		

**METHOD OF PAYMENT** (check all that apply)

Check
  Credit Card
  Money Order
  None
  Other (please identify): \_\_\_\_\_

Deposit Account
 Deposit Account Number: 18-0988
 Deposit Account Name: Renner Otto Boisselle & Sklar LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below
  Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17
  Credit any overpayments

**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.

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	\$1,000.00
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

**Total Claims** 28 - 20 or HP = 8 **Extra Claims** 8 x 50 = 400 **Fee Paid (\$)**  
 HP = highest number of total claims paid for, if greater than 20

**Indep. Claims** 2 - 3 or HP = 0 **Extra Claims** 0 x 200 = 0 **Fee Paid (\$)**  
 HP = highest number of independent claims paid for, if greater than 3

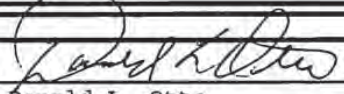
**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____ / 50 = _____ (round up to a whole number) x _____ = _____		

**4. OTHER FEE(S)**

	Fee (\$)	Fee Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)		
Other: _____		

<b>SUBMITTED BY</b>		
Signature		Registration No. <u>22,125</u> (Attorney/Agent)
Name (Print/Type)	<u>Donald L. Otto</u>	Telephone <u>216-621-1113</u>
		Date <u>October 6, 2005</u>

This collection of information is required by 37 CFR 1.136. 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 1.14. This collection is estimated to take 30 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.**

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Approved for use through 07/31/2006. OMB 0651-0031  
 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b>  <small>(to be used for all correspondence after initial filing)</small>	Application Number	11/244,544
	Filing Date	October 6, 2005
	First Named Inventor	Jeffery R. Parker
	Art Unit	2875
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	GL0LP0108USAB

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below);
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Renner, Otto, Boisselle & Sklar, LLP		
Signature			
Printed name	Donald L. Otto		
Date	May 25, 2006	Reg. No.	22,125

CERTIFICATE OF TRANSMISSION/MAILING			
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 on the date shown below:			
Signature			
Typed or printed name	Donald L. Otto	Date	May 25, 2006

This collection of information is required by 37 CFR 1.5. 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 2 hours 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.



Docket No. GLOLP0108USAB

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Applicant: Jeffery R. Parker  
Serial No.: 11/244,544  
Filed: October 6, 2005  
For: LIGHT EMITTING PANEL ASSEMBLIES  
Art Unit: 2875  
Examiner:

INFORMATION DISCLOSURE STATEMENT

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

Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, pending applications, publications and other information listed on the attached PTO-1449. A copy of each listed document is enclosed, except for (a) those previously cited or submitted to the Office in the following application(s) upon which this application relies for an earlier filing date under 35 U.S.C. 120, and (b) any U.S. patent or U.S. patent application publication if the present application was filed after June 30, 2003 or entered the national stage under 35 USC § 371 after June 30, 2003:

Serial No.:	<u>10/784,527</u>	<u>09/256,275</u>	<u>08/778,089</u>	<u>08/495,176</u>
Filing Date:	<u>2/23/04</u>	<u>2/23/99</u>	<u>01/02/97</u>	<u>6/27/95</u>
Patent No.:		<u>6,712,481</u>	<u>6,079,838</u>	<u>5,613,751</u>

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

2. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

- (a)  A copy of each English language version of a search report (or EPO Search Report) indicating the degree of relevance found by the foreign office of each document being submitted from the search report, is being submitted herewith or has previously been submitted.
- (b)  Attached is a "Concise Explanation of Relevance of Non-English Language Documents".

3. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):

- (a)  Within 3 months of the filing date or date of entry into the National Stage.
- (b)  Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 18-0988 for consideration of this Statement.

- (c) \_\_\_ Before the mailing date of a first Office Action on the merits after a first or second submission after final rejection under 37 C.F.R. 1.129(a).
- (d) \_\_\_ After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.
- (1) \_\_\_ The required certification is given below, or
- (2) \_\_\_ Enclosed is credit card payment (PTO Form-2038) covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or
- (3) \_\_\_ Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 18-0988
- (e) \_\_\_ After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification is indicated below.
- (1) \_\_\_ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p), or
- (2) \_\_\_ Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 18-0988.

4. Certification (if applicable)

- (a) \_\_\_ The undersigned hereby certifies that each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.
- (b) \_\_\_ The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the undersigned's knowledge after making reasonable inquiry, no item of information contained in this statement was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.

5. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 18-0988.

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, LLP

By

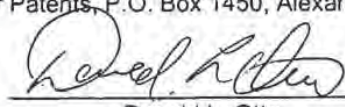
  
Donald L. Otto, Reg. No. 22,125

1621 Euclid Avenue, 19th Floor  
Cleveland, Ohio 44115  
(216) 621-1113

**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8**

I hereby certify that this correspondence (along with any paper referenced as being attached or enclosed) is being deposited on the below date with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: May 25, 2006

  
Donald L. Otto

Z:\SEC177\GLOLIP108USAB\IDS-1449.wpd)

Form PTO-1449 (Modified) <b>LIST OF PATENTS AND PUBLICATIONS                  FOR APPLICANT'S                  INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)	Atty Docket No. <b>GLOLP0108USAB</b>	Serial No. <b>11/244,544</b>
	Applicant: <b>Jeffery R. Parker</b>	
	Filing Date <b>October 6, 2005</b>	Group <b>2875</b>



U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date if Appropriate
	2,480,178	8/1949	Zinberg			
	3,043,947	7/1962	Albinger, Jr.			
	3,328,570	6/1967	Balchunas			
	3,241,256	3/1966	Viret et al			
	3,721,815	3/1973	Wall			
	3,752,974	8/1973	Baker et al			
	3,760,179	9/1973	Addington, Jr.			
	3,781,537	12/1973	Ramsey			
	3,892,959	7/1975	Pulles			
	3,958,113	5/1976	Termohlen			
	4,043,636	8/1977	Eberhardt et al			
	4,128,332	12/1978	Rowe			
	4,257,084	3/1981	Reynolds			
	4,277,817	7/1981	Hehr			
	4,323,951	4/1982	Pasco			
	4,373,282	2/1983	Wragg			
	4,446,508	5/1984	Kinzie			
	4,519,017	5/1985	Daniel			
	4,573,766	3/1986	Bournay, Jr. et al			
	4,630,895	12/1986	Abdala, Jr., et al			
	4,648,690	3/1987	Ohe			
	4,677,531	6/1987	Szeles			
	4,714,983	12/1987	Lang			
	4,729,067	3/1988	Ohe			
	4,729,068	3/1988	Ohe			

Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date if Appropriate
	4,729,185	3/1988	Baba			
	4,751,615	6/1988	Abrams			
	4,761,047	8/1988	Mori			
	4,763,984	8/1988	Awai et al			
	4,765,701	8/1988	Cheslak			
	4,791,540	12/1988	Dreyer, Jr. et al			
	4,802,066	1/1989	Mori			
	4,811,507	3/1989	Blanchet			
	4,825,341	4/1989	Awai			
	4,890,201	12/1989	Joft			
	4,909,604	3/1990	Kobayashi et al			
	4,914,553	4/1990	Hamada et al			
	4,929,062	5/1990	Guzik et al			
	4,974,122	11/1990	Shaw			
	4,975,808	12/1990	Bond et al			
	4,978,952	12/1990	Irwin			
	4,985,809	1/1991	Matsui et al			
	5,005,108	4/1991	Pristash et al			
	5,027,258	6/1991	Schoniger et al			
	5,055,978	10/1991	Rogoff			
	5,070,431	12/1991	Kitazawa et al			
	5,093,765	3/1992	Kashima et al			
	5,134,549	7/1992	Yokoyama			
	5,136,483	8/1992	Schoniger et al			
	5,136,480	8/1992	Pristash et al			
	5,190,370	3/1993	Miller et al			
	5,207,493	5/1993	Murase et al			
	5,243,506	9/1993	Whitehead			
	5,262,928	11/1993	Kashima et al			
	5,283,673	2/1994	Murase et al			
	5,339,179	8/1994	Rudisill et al			
	5,349,503	9/1994	Blonder et al			

Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date if Appropriate
	5,375,043	12/1994	Tokunaga			
	5,377,084	12/1994	Kojima et al			
	5,390,085	2/1995	Mari-Roca et al			
	5,390,436	2/1995	Ashall			
	5,394,308	2/1995	Watanabe et al			
	5,467,208	11/1995	Kokawa et al			
	5,467,417	11/1995	Nakamura et al			
	5,477,423	12/1995	Fredriksz et al			
	5,479,275	12/1995	Abileah			
	5,485,291	1/1996	Qiao et al			
	5,600,455	2/1997	Ishikawa et al			
	5,719,649	2/1998	Shono et al			
	5,947,578	9/1999	Ayres			
	5,999,685	12/1999	Goto et al			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date (MM/YYYY)	Country	Class	Sub-class	Translation	
						Yes	No

OTHER ART

Examiner Initial	Author, Title, Date, Pertinent Pages, etc.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**Information Disclosure Statement PTO-1449 (Modified)**

The identification of any reference is not intended to be, and should not be understood as being, an admission that such publication, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given reference may have a later effective date than first seems apparent or the reference may have an effective date which can be antedated. The "prior art" status of any reference is a matter to be resolved during prosecution.  
 Z:\SEC177\GLOLIP108USAB\IDS-1449.wpd (IDS1449.FRM) (2/97)

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	16	parker.in. and tray.clm. and film.clm.	US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB	2007/09/2 1 18:26	
2	BRS	L2	4	parker.in. and tray.clm. and film.clm. and color\$2.clm. near3 leds.clm.	US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB	2007/09/2 1 19:02	
3	BRS	L3	13	parker.in. and tray.clm. and film.clm. and color\$2.clm.	US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB	2007/09/2 1 19:03	



	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
4	BRS	L4	14	parker.in. and tray.clm. and film.clm. and color\$2 near3 leds	US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB	2007/09/2 1 19:04	
5	BRS	L5	14	parker.in. and tray.clm. and film.clm. and color\$2 near3 leds and tray	US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB	2007/09/2 1 19:08	
6	BRS	L6	17	parker.in. and tray.clm. and film and color\$2 near3 leds and tray	US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB	2007/09/2 1 19:10	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
7	BRS	L7	2	"5070431".pn.	US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB	2007/09/2 1 19:11	
8	BRS	L8	2	"5124890".pn.	US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB	2007/09/2 1 19:14	
9	BRS	L9	2	"5390276".pn.	US- PGPUB ; USPAT ; USOCR ; FPRS; EPO; JPO; DERWE NT; IBM_T DB	2007/09/2 1 19:14	



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/244,544	10/06/2005	Jeffery R. Parker	GL0LP0108USAB	2694
23908	7590	10/03/2007	EXAMINER	
RENNER OTTO BOISSELLE & SKLAR, LLP 1621 EUCLID AVENUE NINETEENTH FLOOR CLEVELAND, OH 44115			SEMBER, THOMAS M	
			ART UNIT	PAPER NUMBER
			2885	
			MAIL DATE	DELIVERY MODE
			10/03/2007	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.

PLF

<b>Office Action Summary</b>	<b>Application No.</b> 11/244,544	<b>Applicant(s)</b> PARKER, JEFFERY R.	
	<b>Examiner</b> Thomas M. Sember	<b>Art Unit</b> 2885	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1)  Responsive to communication(s) filed on 05/30/06.
- 2a)  This action is **FINAL**.
- 2b)  This action is non-final.
- 3)  Since this application is in condition for allowance 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.

**Disposition of Claims**

- 4)  Claim(s) 1-28 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5)  Claim(s) \_\_\_\_\_ is/are allowed.
- 6)  Claim(s) 1-28 is/are rejected.
- 7)  Claim(s) \_\_\_\_\_ is/are objected to.
- 8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    - a)  All    b)  Some \*    c)  None of:
    - 1.  Certified copies of the priority documents have been received.
    - 2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    - 3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1)  Notice of References Cited (PTO-892)
- 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3)  Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date 05/30/06.
- 4)  Interview Summary (PTO-413)  
 Paper No(s)/Mail Date: \_\_\_\_\_
- 5)  Notice of Informal Patent Application
- 6)  Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-28 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed (applicant claims priority back to June 27, 1995), had possession of the claimed invention. Applicant's specification describes Figure 6 as having a tray 35 with a cavity as claimed in claim 1 but there is no absolutely no support of at least one sheet, film or substrate positioned over the cavity or recess of the tray. Figure 5 is a completely different embodiment and is not similar to figure 6.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(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.

- Claims 1-7, 14-19 and 22-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Kitazawa '431. Kitazawa '431 discloses a tray 12 that forms a cavity or

Art Unit: 2885

recess (12a and 12b), at least one light source (15 and 16) located, mounted or positioned in the cavity or recess (12a and 12b), and at least one sheet, film or substrate (11 or 13) positioned over the cavity or recess (12a or 12b) for controlling the light emitted from the assembly to fit a particular application, wherein the tray 12 acts as at least one of a back, side, and edge reflector (12c or 12d) and has one or more secondary flat, angled, faceted or curved reflective or refractive surfaces 12g for reflecting or refracting at least a portion of the light emitted by the light source (15 and 16) through the sheet, film or substrate (11 and 13) in a predetermined pattern.

***Claim Rejections - 35 USC § 103***

4. 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.

Claims 8-13 and 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitazawa et al (U.S. Patent 5,070,431 A) in view of Murata (U.S. Patent 4,851,824 A). Kitazawa et al '431 discloses the claimed invention as cited above, but does not specifically teach at least some of the light sources being LEDs and at least some of the LEDs including multiple chips of different colors. Kitazawa et al '431 teaches at column 2, lines 56-64 that it is advantageous to use different colored lights for optimum output. Murata '824 teaches a light emitting diode incorporating multiple chips of different colors [Figures 4-5: (2b, 2c, 3b, 3c)]. It would have been obvious to one

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ordinarily skilled in the art at the time of invention to modify the light emitting assembly of Kitazawa '431, specifically the light sources, to incorporate the light emitting diodes including multiple chips of different colors, as principally taught by Murata, in order to achieve different effects and to open up different applications for the assembly, as well as benefit from the known characteristics of long life, durability, low power consumption, efficiency, etc. commonly associated with light emitting diodes.

### ***Conclusion***

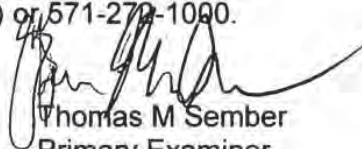
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas M. Sember whose telephone number is 571-272-2381. The examiner can normally be reached on M-F 9 a.m.- 5.30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jong Suk (James) Lee can be reached on 571-272-7044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 11/244,544  
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Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-279-1000.



Thomas M Sember  
Primary Examiner  
Art Unit 2885



**Index of Claims**



Application/Control No.

11/244,544

Examiner

Thomas M. Sember

Applicant(s)/Patent under Reexamination

PARKER, JEFFERY R.

Art Unit

2885

✓	Rejected
=	Allowed

-	(Through numeral) Cancelled
+	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date
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**Search Notes**



Application/Control No.

11/244,544

Examiner

Thomas M. Sember

Applicant(s)/Patent under Reexamination

PARKER, JEFFERY R.

Art Unit

2885

SEARCHED			
Class	Subclass	Date	Examiner
362	602	09/21/07	MS
	602		
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	618		
	619		
	620		
	623-627		
	231		
	26	09/26/07	M

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
Did inventory search and search on patent	09/21/07	MS
applications + patents		
Did class. hls + text search	09/26/07	

<b>Notice of References Cited</b>	Application/Control No. 11/244,544	Applicant(s)/Patent Under Reexamination PARKER, JEFFERY R.	
	Examiner Thomas M. Sember	Art Unit 2885	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-4,851,824	07-1989	Murata, Kazuhisa	345/83
	B US-			
	C US-			
	D US-			
	E US-			
	F US-			
	G US-			
	H US-			
	I US-			
	J US-			
	K US-			
	L US-			
	M US-			

**FOREIGN PATENT DOCUMENTS**

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N				
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	P				
	Q				
	R				
	S				
	T				

**NON-PATENT DOCUMENTS**

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
U	
V	
W	
X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



Form PTO-1449 (Modified)  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	Atty Docket No. <b>GLOLP0108USAB</b>	Serial No. <b>11/244,544</b>
	Applicant: <b>Jeffery R. Parker</b>	
	Filing Date <b>October 6, 2005</b>	Group <b>2875 2885</b>

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Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date if Appropriate
MP	2,480,178	8/1949	Zinberg			
	3,043,947	7/1962	Albinger, Jr.			
	3,328,570	6/1967	Balchunas			
	3,241,256	3/1966	Viret et al			
	3,721,815	3/1973	Wall			
	3,752,974	8/1973	Baker et al			
	3,760,179	9/1973	Addington, Jr.			
	3,781,537	12/1973	Ramsey			
	3,892,959	7/1975	Pulles			
	3,958,113	5/1976	Termohlen			
	4,043,636	8/1977	Eberhardt et al			
	4,128,332	12/1978	Rowe			
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	4,277,817	7/1981	Hehr			
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	4,373,282	2/1983	Wragg			
	4,446,508	5/1984	Kinzie			
	4,519,017	5/1985	Daniel			
	4,573,766	3/1986	Bournay, Jr. et al			
	4,630,895	12/1986	Abdala, Jr., et al			
4,648,690	3/1987	Ohe				
4,677,531	6/1987	Szeles				
4,714,983	12/1987	Lang				
4,729,067	3/1988	Ohe				
4,729,068	3/1988	Ohe				

Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date if Appropriate
[Handwritten Initial]	4,729,185	3/1988	Baba	[Handwritten]	[Handwritten]	[Handwritten]
	4,751,615	6/1988	Abrams	[Handwritten]	[Handwritten]	[Handwritten]
	4,761,047	8/1988	Mori	[Handwritten]	[Handwritten]	[Handwritten]
	4,763,984	8/1988	Awai et al	[Handwritten]	[Handwritten]	[Handwritten]
	4,765,701	8/1988	Cheslak	[Handwritten]	[Handwritten]	[Handwritten]
	4,791,540	12/1988	Dreyer, Jr. et al	[Handwritten]	[Handwritten]	[Handwritten]
	4,802,066	1/1989	Mori	[Handwritten]	[Handwritten]	[Handwritten]
	4,811,507	3/1989	Blanchet	[Handwritten]	[Handwritten]	[Handwritten]
	4,825,341	4/1989	Awai	[Handwritten]	[Handwritten]	[Handwritten]
	4,890,201	12/1989	Joft	[Handwritten]	[Handwritten]	[Handwritten]
	4,909,604	3/1990	Kobayashi et al	[Handwritten]	[Handwritten]	[Handwritten]
	4,914,553	4/1990	Hamada et al	[Handwritten]	[Handwritten]	[Handwritten]
	4,929,062	5/1990	Guzik et al	[Handwritten]	[Handwritten]	[Handwritten]
	4,974,122	11/1990	Shaw	[Handwritten]	[Handwritten]	[Handwritten]
	4,975,808	12/1990	Bond et al	[Handwritten]	[Handwritten]	[Handwritten]
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	4,985,809	1/1991	Matsui et al	[Handwritten]	[Handwritten]	[Handwritten]
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	5,070,431	12/1991	Kitazawa et al	[Handwritten]	[Handwritten]	[Handwritten]
	5,093,765	3/1992	Kashima et al	[Handwritten]	[Handwritten]	[Handwritten]
	5,134,549	7/1992	Yokoyama	[Handwritten]	[Handwritten]	[Handwritten]
	5,136,483	8/1992	Schoniger et al	[Handwritten]	[Handwritten]	[Handwritten]
	5,136,480	8/1992	Pristash et al	[Handwritten]	[Handwritten]	[Handwritten]
	5,190,370	3/1993	Miller et al	[Handwritten]	[Handwritten]	[Handwritten]
	5,207,493	5/1993	Murase et al	[Handwritten]	[Handwritten]	[Handwritten]
	5,243,506	9/1993	Whitehead	[Handwritten]	[Handwritten]	[Handwritten]
5,262,928	11/1993	Kashima et al	[Handwritten]	[Handwritten]	[Handwritten]	
5,283,673	2/1994	Murase et al	[Handwritten]	[Handwritten]	[Handwritten]	
5,339,179	8/1994	Rudisill et al	[Handwritten]	[Handwritten]	[Handwritten]	
5,349,503	9/1994	Blonder et al	[Handwritten]	[Handwritten]	[Handwritten]	

Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date if Appropriate
<i>TH</i>	5,375,043	12/1994	Tokunaga	<del>    </del>	<del>    </del>	
	5,377,084	12/1994	Kojima et al	<del>    </del>	<del>    </del>	
	5,390,085	2/1995	Mari-Roca et al	<del>    </del>	<del>    </del>	
	5,390,436	2/1995	Ashall	<del>    </del>	<del>    </del>	
	5,394,308	2/1995	Watanabe et al	<del>    </del>	<del>    </del>	
	5,467,208	11/1995	Kokawa et al	<del>    </del>	<del>    </del>	
	5,467,417	11/1995	Nakamura et al	<del>    </del>	<del>    </del>	
	5,477,423	12/1995	Fredriksz et al	<del>    </del>	<del>    </del>	
	5,479,275	12/1995	Abileah	<del>    </del>	<del>    </del>	
	5,485,291	1/1996	Qiao et al	<del>    </del>	<del>    </del>	
	5,600,455	2/1997	Ishikawa et al	<del>    </del>	<del>    </del>	
	5,719,649	2/1998	Shono et al	<del>    </del>	<del>    </del>	
	5,947,578	9/1999	Ayres	<del>    </del>	<del>    </del>	
	5,999,685	12/1999	Goto et al	<del>    </del>	<del>    </del>	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date (MM/YYYY)	Country	Class	Sub-class	Translation	
						Yes	No

OTHER ART

Examiner Initial	Author, Title, Date, Pertinent Pages, etc.

EXAMINER <i>Thomas M. Sember</i>	DATE CONSIDERED <i>09/27/07</i>
----------------------------------	---------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**Information Disclosure Statement PTO-1449 (Modified)**

The identification of any reference is not intended to be, and should not be understood as being, an admission that such publication, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given reference may have a later effective date than first seems apparent or the reference may have an effective date which can be antedated. The "prior art" status of any reference is a matter to be resolved during prosecution.  
 Z:\SEC17\GLOLP108USAB\IDS-1449.wpd (IDS1449.FRM) (2/97)

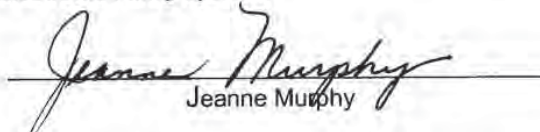
CERTIFICATE OF MAILING OR ELECTRONIC TRANSMISSION

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) 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 \_\_, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

being transmitted via the USPTO Electronic Filing System.

Date: January 22, 2008

  
Jeanne Murphy

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Attorney docket GLOLP0108USAB

In re PATENT application of

Jeffery R. Parker

Serial No. 11/244,544

Confirmation No. 2694

Filed October 6, 2005

For: LIGHT EMITTING PANEL ASSEMBLIES

Art Unit 2885

Thomas F. Sember, Primary Examiner

**REPLY TO OFFICE ACTION OF OCTOBER 3, 2007**

Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In reply to the Office Action of October 3, 2007, 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 7 of this paper.

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (currently amended): A light emitting assembly comprising a tray having a back wall and continuous side walls that ~~forms~~ form a hollow cavity or recess completely surrounded by the side walls, at least one light source located, mounted or positioned in the cavity or recess, and at least one sheet, film or substrate ~~positioned over the cavity or recess~~ overlying the assembly for controlling the light emitted from the assembly to fit a particular application, wherein the tray acts as at least one of a back, side edge, and end edge reflector and has one or more secondary flat, angled, faceted or curved reflective or refractive surfaces ~~for reflecting or refracting~~ to redirect at least a portion of the light emitted by the light source ~~through the sheet, film or substrate in a predetermined pattern~~ in a predetermined manner within the cavity or recess.

2. (original): The assembly of claim 1 wherein the refractive or reflective surfaces are flat, planar or curved.

3. (original): The assembly of claim 1 wherein the refractive or reflective surfaces are prismatic or lenticular surfaces.



4. (original): The assembly of claim 1 wherein the refractive or reflective surfaces are quite small compared to the length and width of the tray.

5. (currently amended): The assembly of claim 1 wherein the refractive or reflective surfaces are in close proximity ~~or~~ to and around and behind the light source.

6. (currently amended): The assembly of claim 1 wherein there are at least two light sources located, mounted or positioned in the cavity or recess.

7. (original): The assembly of claim 6 wherein each light source is positioned in close proximity to a group of the refractive or reflective surfaces.

8. (original): The assembly of claim 6 wherein the at least two light sources are different color LEDs.

9. (cancelled)

10. (original): The assembly of claim 6 wherein a portion of the light emitted from the light sources mixes in the cavity or recess.

11. (original): The assembly of claim 10 wherein the sheet, film or substrate provides additional light mixing.

12. (original): The assembly of claim 6 wherein the reflective or refractive surfaces promote mixing of the light from two or more light sources.

13. (original): The assembly of claim 6 wherein there is at least one refractive or reflective surface corresponding to each light source.

14. (original): The assembly of claim 1 wherein there is at least one sheet, film or substrate that is a diffuser, colored film or filter, label, transparent or semi-transparent overlay, label or display, reflector, polarizer or reflective polarizer.

15. (original): The assembly of claim 1 wherein the at least one sheet, film or substrate has deformities for controlling the light output ray angle distribution to fit a particular application.

16. (currently amended): A light emitting assembly comprising a tray having a back wall and continuous side walls that ~~forms~~ form a hollow cavity or recess completely surrounded by the side walls, at least two light sources located, mounted or positioned in the cavity or recess, and at least one sheet, film or substrate ~~positioned over the cavity or recess~~ overlying the assembly for controlling the light emitted from the assembly to fit a particular application, wherein the tray acts as at least one of a back, side edge and end edge reflector and has at least one secondary flat, angled, faceted or curved reflective or

refractive surface to facilitate better mixing of light rays within the cavity or recess to produce a desired light output color or uniformity.

17. (original): The assembly of claim 16 wherein at least some of the light sources are different colored light sources.

18. (original): The assembly of claim 17 wherein the secondary reflective or refractive surface promotes mixing of different color light to make white light.

19. (original): The assembly of claim 16 wherein multiple light sources contain at least one light source of each of the colors red, green and blue.

20. (original): The assembly of claim 16 wherein at least some of the light sources are LEDs.

21. (original): The assembly of claim 20 wherein at least some of the LEDs have multiple chips of different colors.

22. (original): The assembly of claim 16 wherein there is at least one sheet, film or substrate that is a diffuser, colored film or filter, label, transparent or semi-transparent overlay, reflector, polarizer or reflective polarizer.

23. (original): The assembly of claim 16 wherein the sheet, film or substrate is comprised of multiple layers.

24. (original): The assembly of claim 16 wherein there is at least one sheet, film or substrate that has deformities on at least one surface to control the light output ray angle distribution to fit a particular application.

25. (original): The assembly of claim 24 wherein the deformities are depressions or raised surfaces.

26. (original): The assembly of claim 24 wherein the deformities are prismatic or lenticular.

27. (original): The assembly of claim 24 wherein the deformities vary or are random.

28. (original): The assembly of claim 24 wherein at least some of the deformities are paints, inks or coatings.

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	2747200
<b>Application Number:</b>	11244544
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2694
<b>Title of Invention:</b>	Light emitting panel assemblies
<b>First Named Inventor/Applicant Name:</b>	Jeffery R. Parker
<b>Customer Number:</b>	23908
<b>Filer:</b>	Donald L. Otto/Jeanne Murphy
<b>Filer Authorized By:</b>	Donald L. Otto
<b>Attorney Docket Number:</b>	GLOLP0108USAB
<b>Receipt Date:</b>	22-JAN-2008
<b>Filing Date:</b>	06-OCT-2005
<b>Time Stamp:</b>	13:38:06
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 120
RAM confirmation Number	13784
Deposit Account	
Authorized User	

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Extension of Time	GLOLP0108USABext.pdf	55063 64a4486b41591163773cb08ca708dc e240d36d	no	1
<b>Warnings:</b>					
<b>Information:</b>					
2		GLOLP0108USABreply.pdf	285957 7893fd93a87c39f0b1121861d7f3218a5 87b0b1	yes	10
<b>Multipart Description/PDF files in .zip description</b>					
<b>Document Description</b>		<b>Start</b>	<b>End</b>		
Amendment - After Non-Final Rejection		1	1		
Claims		2	6		
Applicant Arguments/Remarks Made in an Amendment		7	10		
<b>Warnings:</b>					
<b>Information:</b>					
3	Fee Worksheet (PTO-06)	fee-info.pdf	8138 306d8040c90c29fe3d0675dbdec35461 28869d94	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>				349158	
<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><b><u>New Applications Under 35 U.S.C. 111</u></b>  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><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  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><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  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>					

## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	11244544			
<b>Filing Date:</b>	06-Oct-2005			
<b>Title of Invention:</b>	Light emitting panel assemblies			
<b>First Named Inventor/Applicant Name:</b>	Jeffery R. Parker			
<b>Filer:</b>	Donald L. Otto/Jeanne Murphy			
<b>Attorney Docket Number:</b>	GLOLP0108USAB			
Filed as Large Entity				
<b>Utility Filing Fees</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
Post-Allowance-and-Post-Issuance:				
<b>Extension-of-Time:</b>				
Extension - 1 month with \$0 paid	1251	1	120	120

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
<b>Total in USD (\$)</b>				<b>120</b>



### REMARKS/ARGUMENTS

Claims 1-8 and 10-28 are pending in the application, claims 1 and 16 being independent. Claims 1, 6 and 16 have been amended. Claim 9 has been cancelled.

Claims 1-8 and 10-28 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement, the Examiner contending that the claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In particular, the Examiner acknowledges that the specification describes Figure 6 as having a tray 35 with a cavity as claimed in claim 1 but contends there is no support of at least one sheet, film or substrate positioned over the cavity or recess of the tray, stating that Figure 5 is a completely different embodiment and is not similar to Figure 6.

However, it is respectfully submitted that the statement for example on page 9, lines 16-21 of the present application that a transparent sheet or plate 27 may be attached or positioned against the side or sides of the panel member from which light is emitted in order to produce a desired effect provides clear support for the claims as amended, which now recite at least one sheet, film or substrate overlying the assembly for controlling the light emitted from the assembly to fit a particular application. Accordingly, withdrawal of this rejection is respectfully requested.

Claims 1-7, 14-19 and 22-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Kitazawa (US Patent 5,070,431). According to the Examiner, the light guide plate 12 shown in Figure 2 of Kitazawa is a tray that forms a cavity or recess (12a and 12b) in which at least one light source (15 and 16) is located, mounted or positioned, and at least one sheet, film or substrate (11 or 13) is positioned over the cavity or recess for controlling the light emitted from the assembly to fit a particular application. Also according to the Examiner, the so-called tray 12 of Kitazawa acts as at least one of a back, side, and edge reflector (12c or 12d) and has one or more secondary flat, angled, faceted or curved reflective or refractive surfaces 12g for reflecting or refracting at least a portion of the light emitted by the light source (15 and 16) through the sheet, film or substrate (11 and 13) in a predetermined pattern.

However, it is respectfully submitted that the so-called tray 12 of Kitazawa does not have a back wall and continuous side walls that form a hollow cavity or recess completely surrounded by the side walls in which at least one light source is located, mounted or positioned as recited in claims 1 and 16 as amended. Nor do the so-called secondary flat, angled, faceted or curved reflective or refractive surfaces 12g of Kitazawa redirect at least a portion of the light emitted by the light source in a predetermined manner within the cavity or recess in the tray as further recited in claims 1 and 16 as amended. Accordingly, claims 1 and 16 are submitted as clearly allowable.

The Examiner's attention is invited to an Office Action mailed August 28, 2007 in a related US Application Serial No. 11/378,080 and the reply filed

November 28, 2007. The Examiner in that application, Thomas Sember, is also the Examiner in this application.

Claims 2-7, 14 and 15 depend from claim 1 and claims 17-19 and 22-28 depend from claim 16 and are submitted as allowable for substantially the same reasons. Moreover, it is submitted that the so-called refractive or reflective surfaces 12g of Kitazawa are not quite small compared to the length and width of the tray as recited in claim 4, or in close proximity to and around and behind the light source as recited in claim 5. Also there are not at least two light sources located, mounted or positioned in the cavity or recess 12a or 12b of Kitazawa as recited in claim 6. Accordingly, claims 4-6 are further submitted as allowable in their own right in addition to being dependent on claim 1.

Claims 8, 10-13, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitazawa et al (US Patent 5,070,431) in view of Murata (US Patent 4,851,824). The Examiner relies on Murata for its teaching of a light emitting diode incorporating multiple chips of different colors, contending it would have been obvious to modify the light emitting assembly of Kitazawa to incorporate the light emitting diodes including multiple chips of different colors as taught by Murata in order to achieve different effects and to open up different applications for the assembly as well as benefit from the known characteristics commonly associated with light emitting diodes. However, claims 8 and 10-13 depend from claim 6 and claims 20 and 21 depend from claim 16 and are submitted as allowable for substantially the same reasons.

For the foregoing reasons, this application is now believed to be in condition for final allowance of all of the pending claims 1-8 and 10-28, and early action to that end is respectfully requested.

In the event an extension of time is necessary, this should be considered a petition for such an extension. If required, fees are enclosed for the extension of time and/or for the presentation of new and/or amended claims. In the event any additional fees are due in connection with the filing of this reply, the Commissioner is authorized to charge those fees to our Deposit Account No. 18-0988 (Attorney Docket GLOLP0108USAB).

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, LLP

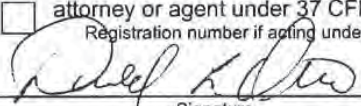
By 

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<b>PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)</b> <b>FY 2008</b> <i>(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)</i>		Docket Number (Optional) GLOLP0108USAB	
Application Number 11/244,544		Filed October 6, 2005	
For LIGHT EMITTING PANEL ASSEMBLIES			
Art Unit 2885		Examiner Thomas F. Sember	
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.			
The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):			
		<u>Fee</u>	<u>Small Entity Fee</u>
<input checked="" type="checkbox"/>	One month (37 CFR 1.17(a)(1))	\$120	\$60      \$ <u>120.00</u>
<input type="checkbox"/>	Two months (37 CFR 1.17(a)(2))	\$460	\$230      \$ _____
<input type="checkbox"/>	Three months (37 CFR 1.17(a)(3))	\$1050	\$525      \$ _____
<input type="checkbox"/>	Four months (37 CFR 1.17(a)(4))	\$1640	\$820      \$ _____
<input type="checkbox"/>	Five months (37 CFR 1.17(a)(5))	\$2230	\$1115      \$ _____
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.			
<input type="checkbox"/> A check in the amount of the fee is enclosed.			
<input checked="" type="checkbox"/> Payment by credit card. Via EFS Web			
<input type="checkbox"/> The Director has already been authorized to charge fees in this application to a Deposit Account.			
<input checked="" type="checkbox"/> The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>18-0988</u> . I have enclosed a duplicate copy of this sheet.			
<b>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.</b>			
I am the <input type="checkbox"/> applicant/inventor.			
<input type="checkbox"/> 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).			
<input checked="" type="checkbox"/> attorney or agent of record. Registration Number <u>22,125</u>			
<input type="checkbox"/> attorney or agent under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34 _____			
		<u>1/22/08</u>	
Signature		Date	
<u>Donald L. Otto</u>		<u>216-621-1113</u>	
Typed or printed name		Telephone Number	
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.			
<input type="checkbox"/> Total of _____ forms are submitted.			

This collection of information is required by 37 CFR 1.136(a). 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 6 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.**

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<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875				Application or Docket Number <b>11/244,544</b>		Filing Date <b>10/06/2005</b>		<input type="checkbox"/> To be Mailed			
<b>APPLICATION AS FILED – PART I</b>											
(Column 1)			(Column 2)			SMALL ENTITY <input type="checkbox"/>		OR		OTHER THAN SMALL ENTITY	
FOR		NUMBER FILED	NUMBER EXTRA		RATE (\$)	FEE (\$)	OR		RATE (\$)	FEE (\$)	
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>		N/A	N/A		N/A				N/A		
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>		N/A	N/A		N/A		N/A				
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>		N/A	N/A		N/A		N/A				
TOTAL CLAIMS <small>(37 CFR 1.16(j))</small>		minus 20 =	*		X \$ =		OR		X \$ =		
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>		minus 3 =	*		X \$ =		OR		X \$ =		
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>											
* If the difference in column 1 is less than zero, enter "0" in column 2.											
<b>APPLICATION AS AMENDED – PART II</b>					SMALL ENTITY		OR		OTHER THAN SMALL ENTITY		
(Column 1)		(Column 2)		(Column 3)		OR		OR		OR	
AMENDMENT		AMENDMENT		AMENDMENT							
<b>01/22/2008</b>		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		TOTAL ADD'L FEE		TOTAL ADD'L FEE	
Total <small>(37 CFR 1.16(o))</small>		+ 27		Minus ** 28		= 0		X \$ =		OR X \$50= 0	
Independent <small>(37 CFR 1.16(b))</small>		+ 2		Minus *** 3		= 0		X \$ =		OR X \$210= 0	
<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>											
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>											
AMENDMENT		AMENDMENT		AMENDMENT		TOTAL ADD'L FEE		TOTAL ADD'L FEE		TOTAL ADD'L FEE	
Total <small>(37 CFR 1.16(o))</small>		+		Minus		**		=		OR X \$ =	
Independent <small>(37 CFR 1.16(b))</small>		+		Minus		***		=		OR X \$ =	
<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>											
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>											
AMENDMENT		AMENDMENT		AMENDMENT		TOTAL ADD'L FEE		TOTAL ADD'L FEE		TOTAL ADD'L FEE	
Total <small>(37 CFR 1.16(o))</small>		+		Minus		**		=		OR X \$ =	
Independent <small>(37 CFR 1.16(b))</small>		+		Minus		***		=		OR X \$ =	
<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>											
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>											
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.											
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".											
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".											
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											
Legal Instrument Examiner: /NICOLE LOVE HENSLEY/											

This collection of information is required by 37 CFR 1.16. 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 1.14. 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.

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BIB DATA SHEET

CONFIRMATION NO. 2694

<b>SERIAL NUMBER</b> 11/244,544	<b>FILING or 371(c) DATE</b> 10/06/2005 <b>RULE</b>	<b>CLASS</b> 362	<b>GROUP ART UNIT</b> 2885	<b>ATTORNEY DOCKET NO.</b> GLOLP0108USAB
<b>APPLICANTS</b> Jeffery R. Parker, Richfield, OH;				
<b>** CONTINUING DATA *****</b> This application is a DIV of 10/784,527 02/23/2004 PAT 7,160,015 which is a DIV of 09/256,275 02/23/1999 PAT 6,712,481 which is a CIP of 08/778,089 01/02/1997 PAT 6,079,838 which is a DIV of 08/495,176 06/27/1995 PAT 5,613,751				
<b>** FOREIGN APPLICATIONS *****</b>				
<b>** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **</b> 10/28/2005				
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Verified and /THOMAS M SEMBER/ Acknowledged _____ Examiner's Signature	<input type="checkbox"/> Met after Allowance Initials _____	<b>STATE OR COUNTRY</b> OH	<b>SHEETS DRAWINGS</b> 4	<b>TOTAL CLAIMS</b> 28
<b>INDEPENDENT CLAIMS</b> 2				
<b>ADDRESS</b> RENNER OTTO BOISSELLE & SKLAR, LLP 1621 EUCLID AVENUE NINETEENTH FLOOR CLEVELAND, OH 44115 UNITED STATES				
<b>TITLE</b> Light emitting panel assemblies				
<b>FILING FEE RECEIVED</b> 1400	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	



NOTICE OF ALLOWANCE AND FEE(S) DUE

23908 7590 02/20/2008

RENNER OTTO BOISSELLE & SKLAR, LLP
1621 EUCLID AVENUE
NINETEENTH FLOOR
CLEVELAND, OH 44115

EXAMINER

SEMBER, THOMAS M

ART UNIT PAPER NUMBER

2885

DATE MAILED: 02/20/2008

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
11/244,544 10/06/2005 Jeffery R. Parker GLOLP0108USAB 2694

TITLE OF INVENTION: LIGHT EMITTING PANEL ASSEMBLIES

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional NO \$1440 \$300 \$0 \$1740 05/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



**PART B - FEE(S) TRANSMITTAL**

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 Alexandria, Virginia 22313-1450  
 or Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23908                      7590                      02/20/2008

**RENNER OTTO BOISSELLE & SKLAR, LLP**  
 1621 EUCLID AVENUE  
 NINETEENTH FLOOR  
 CLEVELAND, OH 44115

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/244,544	10/06/2005	Jeffery R. Parker	GLOLP0108USAB	2694

TITLE OF INVENTION: LIGHT EMITTING PANEL ASSEMBLIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	05/20/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
SEMBER, THOMAS M	2885	362-601000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a <b>Customer Number is required.</b></p>	<p>2. For printing on the patent front page, list</p> <p>(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____</p> <p>(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____</p> <p>3 _____</p>
---	---

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: \_\_\_\_\_ (B) RESIDENCE: (CITY and STATE OR COUNTRY) \_\_\_\_\_

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed,</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
---	--

5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.       b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____	Date _____
Typed or printed name _____	Registration No. _____

This collection of information is required by 37 CFR 1.311. 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 1.14. 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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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

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
11/244,544 10/06/2005 Jeffery R. Parker GLOLP0108USAB 2694

23908 7590 02/20/2008

RENNER OTTO BOISSELLE & SKLAR, LLP
1621 EUCLID AVENUE
NINETEENTH FLOOR
CLEVELAND, OH 44115

EXAMINER

SEMBER, THOMAS M

ART UNIT PAPER NUMBER

2885

DATE MAILED: 02/20/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 282 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 282 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	11/244,544	PARKER, JEFFERY R.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Thomas M. Sember	2885	

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the amendment filed on 01/22/08.
2.  The allowed claim(s) is/are 1-8 and 10-28.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

## REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: None of the prior art of record alone or in combination teaches or fairly suggest applicant's claimed invention for the reasons stated in applicant's amendment and response filed on 01/22/08.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas M. Sember whose telephone number is 571-272-2381. The examiner can normally be reached on M-F 9 a.m.- 5.30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jong Suk (James) Lee can be reached on 571-272-7044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas M Sember/  
Primary Examiner, Art Unit 2885

<b>Issue Classification</b> 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	11/244,544	PARKER, JEFFERY R.	
Examiner	Art Unit		
Thomas M. Sember	2885		

ISSUE CLASSIFICATION											
ORIGINAL				CROSS REFERENCE(S)							
CLASS	SUBCLASS			CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)						
362	601			362	612	613	623	609	231		
INTERNATIONAL CLASSIFICATION											
F	2	1	V	7/04							
				/							
				/							
				/							
				/							
(Assistant Examiner) (Date)				<b>Thomas M. Sember</b> (Primary Examiner) (Date)						<b>Total Claims Allowed: 27</b>	
(Legal Instruments Examiner) (Date)										O.G. Print Claim(s) <b>1</b>	

<input 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							
Final	Original	Final	Original	Final	Original	Final	Original						
1	1		31		61		91		121		151		181
2	2		32		62		92		122		152		182
3	3		33		63		93		123		153		183
4	4		34		64		94		124		154		184
5	5		35		65		95		125		155		185
6	6		36		66		96		126		156		186
7	7		37		67		97		127		157		187
8	8		38		68		98		128		158		188
	9		39		69		99		129		159		189
9	10		40		70		100		130		160		190
10	11		41		71		101		131		161		191
11	12		42		72		102		132		162		192
12	13		43		73		103		133		163		193
13	14		44		74		104		134		164		194
14	15		45		75		105		135		165		195
15	16		46		76		106		136		166		196
16	17		47		77		107		137		167		197
17	18		48		78		108		138		168		198
18	19		49		79		109		139		169		199
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24	25		55		85		115		145		175		205
25	26		56		86		116		146		176		206
26	27		57		87		117		147		177		207
27	28		58		88		118		148		178		208
	29		59		89		119		149		179		209
	30		60		90		120		150		180		210

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	1411	(tray or cavity or recess\$2) near9 (lamp or light adj source or light adj emitt\$4 or led or bulb) near9 reflect\$4	US-PGPUB	OR	OFF	2008/02/13 19:38

2/13/2008 8:09:05 PM

C:\Documents and Settings\Tsember\My Documents\EAST\Workspaces  
\EASTPush.wsp

Search Notes



Application/Control No.

11/244,544

Applicant(s)/Patent under Reexamination

PARKER, JEFFERY R.

Examiner

Thomas M. Sember

Art Unit

2885

SEARCHED

Class	Subclass	Date	Examiner
362	609	2/13/2008	/TS/

SEARCH NOTES (INCLUDING SEARCH STRATEGY)

	DATE	EXMR
Updated search	2/13/2008	/TS/

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner
362	all	2/13/2008	/TS/
	searched		
Did PGPub search on broadest claim		2/13/2008	/TS/



**PART B - FEE(S) TRANSMITTAL**

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**  
 or **Fax** (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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23908 7590 02/20/2008  
**RENNER OTTO BOISSELLE & SKLAR, LLP**  
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 CLEVELAND, OH 44115

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**transmitted via EFS WEB**

**Certificate of Mailing or Transmission**  
 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Jeanne Murphy	(Depositor's name)
	(Signature)
May 5, 2008	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/244,544	10/06/2005	Jeffery R. Parker	GL0LP0108USAB	2694

TITLE OF INVENTION: LIGHT EMITTING PANEL ASSEMBLIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	05/20/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
SEMBER, THOMAS M	2885	362-601000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  
 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list  
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 RENNER, OTTO, BOISSELLE & SKLAR, LLP  
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_  
 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  
 PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.  
 (A) NAME OF ASSIGNEE: Solid State Opto Limited  
 (B) RESIDENCE: (CITY and STATE OR COUNTRY) British Virgin Islands

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

4a. The following fee(s) are submitted:  
 Issue Fee  
 Publication Fee (No small entity discount permitted)  
 Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  
 A check is enclosed.  
 Payment by credit card. ~~676 440 2038 XXX XXX~~ VIA EFS WEB  
 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 18-0988 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)  
 a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature  Date May 5, 2008  
 Typed or printed name Donald L. Otto Registration No. 22,125

This collection of information is required by 37 CFR 1.311. 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 1.14. 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	11244544			
<b>Filing Date:</b>	06-Oct-2005			
<b>Title of Invention:</b>	LIGHT EMITTING PANEL ASSEMBLIES			
<b>First Named Inventor/Applicant Name:</b>	Jeffery R. Parker			
<b>Filer:</b>	Donald L. Otto/Jeanne Murphy			
<b>Attorney Docket Number:</b>	GLOLP0108USAB			
Filed as Large Entity				
<b>Utility Filing Fees</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
Post-Allowance-and-Post-Issuance:				
Utility Appl issue fee	1501	1	1440	1440
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
<b>Total in USD (\$)</b>				<b>1740</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	3254840
<b>Application Number:</b>	11244544
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2694
<b>Title of Invention:</b>	LIGHT EMITTING PANEL ASSEMBLIES
<b>First Named Inventor/Applicant Name:</b>	Jeffery R. Parker
<b>Customer Number:</b>	23908
<b>Filer:</b>	Donald L. Otto/Jeanne Murphy
<b>Filer Authorized By:</b>	Donald L. Otto
<b>Attorney Docket Number:</b>	GLOLP0108USAB
<b>Receipt Date:</b>	05-MAY-2008
<b>Filing Date:</b>	06-OCT-2005
<b>Time Stamp:</b>	16:21:23
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1740
RAM confirmation Number	1695
Deposit Account	
Authorized User	

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Issue Fee Payment (PTO-85B)	GLLOLP0108USABissuefee.pdf	97307 dc05cead160b1c917059aee1bdfc953c9516ad0	no	1
<b>Warnings:</b>					
<b>Information:</b>					
2	Fee Worksheet (PTO-06)	fee-info.pdf	8281 b3e7c8bb6f343fa593b6469fc6de54b919a82d2a	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>				105588	
<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><b><u>New Applications Under 35 U.S.C. 111</u></b>  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><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  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><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  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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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/244,544	06/10/2008	7384177	GL0L.P0108USAB	2694

23908 7590 05/21/2008  
RENNER OTTO BOISSELLE & SKLAR, LLP  
1621 EUCLID AVENUE  
NINETEENTH FLOOR  
CLEVELAND, OH 44115

### ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**  
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 282 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

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Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Jeffery R. Parker, Richfield, OH;



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 NUMBER	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
11/244,544	7384177	2885	9200



**Correspondence Address/Fee Address Change**

The following fields have been set to Customer Number 93969 on 03/09/2010

- Correspondence Address
- Power of Attorney Address

The address of record for Customer Number 93969 is:

93969  
Rambus International Ltd  
c/o Rambus Inc.  
4440 El Camino Real  
Los Altos, CA 94022



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
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Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NUMBER	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
11/244,544	7384177	2885	9200



**Correspondence Address/Fee Address Change**

The following fields have been set to Customer Number 93969 on 03/23/2010

- Correspondence Address
- Power of Attorney Address

The address of record for Customer Number 93969 is:

93969  
Donald L. Otto (Rambus)  
Renner, Otto, Boisselle & Sklar, LLP  
1621 Euclid Avenue  
19th Floor  
Cleveland, OH 44115



AO 120 (Rev. 08/10)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Marshall Division on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:13-cv-00522	DATE FILED 6/28/2013	U.S. DISTRICT COURT Eastern District of Texas, Marshall Division
PLAINTIFF INNOVATIVE DISPLAY TECHNOLOGIES LLC		DEFENDANT ACER INC., and ACER AMERICA CORPORATION
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 U.S. No. 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 U.S. No. 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 U.S. No. 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 U.S. No. 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 U.S. No. 7,434,974	10/14/2008	Innovative Display Technologies LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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 Copy 2—Upon filing document adding patent(s), mail this copy to Director    Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Marshall Division on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:13-cv-00523	DATE FILED 6/28/2013	U.S. DISTRICT COURT Eastern District of Texas, Marshall Division
PLAINTIFF INNOVATIVE DISPLAY TECHNOLOGIES LLC		DEFENDANT DELL, INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 U.S. No. 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 U.S. No. 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 U.S. No. 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 U.S. No. 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 U.S. No. 7,434,974	10/14/2008	Innovative Display Technologies LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

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AO 120 (Rev. 08/10)

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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Marshall Division on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:13-cv-00524	DATE FILED 6/28/2013	U.S. DISTRICT COURT Eastern District of Texas, Marshall Division
PLAINTIFF INNOVATIVE DISPLAY TECHNOLOGIES LLC		DEFENDANT HEWLETT-PACKARD COMPANY
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 U.S. No. 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 U.S. No. 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 U.S. No. 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 U.S. No. 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 U.S. No. 7,434,974	10/14/2008	Innovative Display Technologies LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

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PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK    HOLDER OF PATENT OR TRADEMARK
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 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:13-cv-00525	DATE FILED 6/28/2013	U.S. DISTRICT COURT Eastern District of Texas, Marshall Division
PLAINTIFF INNOVATIVE DISPLAY TECHNOLOGIES LLC		DEFENDANT HUAWEI INVESTMENT AND HOLDING CO., LTD., HUAWEI TECHNOLOGIES CO., LTD., and HUAWEI DEVICE USA INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 U.S. No. 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 U.S. No. 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 U.S. No. 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 U.S. No. 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 U.S. No. 7,434,974	10/14/2008	Innovative Display Technologies LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

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PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:13-cv-00526	DATE FILED 6/28/2013	U.S. DISTRICT COURT Eastern District of Texas, Marshall Division
PLAINTIFF INNOVATIVE DISPLAY TECHNOLOGIES LLC		DEFENDANT RESEARCH IN MOTION LIMITED, and RESEARCH IN MOTION CORPORATION
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 U.S. No. 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 U.S. No. 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 U.S. No. 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 U.S. No. 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 U.S. No. 7,434,974	10/14/2008	Innovative Display Technologies LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

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 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:13-cv-00527	DATE FILED 6/28/2013	U.S. DISTRICT COURT Eastern District of Texas, Marshall Division
PLAINTIFF INNOVATIVE DISPLAY TECHNOLOGIES LLC		DEFENDANT ZTE CORPORATION, and ZTE (USA) INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 U.S. No. 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 U.S. No. 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 U.S. No. 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 U.S. No. 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 U.S. No. 7,434,974	10/14/2008	Innovative Display Technologies LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK    HOLDER OF PATENT OR TRADEMARK
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AO 120 (Rev. 08/10)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court District of Delaware on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED 12/31/2013	U.S. DISTRICT COURT District of Delaware
PLAINTIFF Delaware Display Group LLC and Innovative Display Technologies LLC		DEFENDANT Amazon.com, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 See Attached		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
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	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	US 6,755,547 B2	6/29/2004	Innovative Display Technologies LLC
2	US 7,300,194 B2	11/27/2007	Innovative Display Technologies LLC
3	US 7,384,177 B2	6/10/2008	Innovative Display Technologies LLC
4	US 7,404,660 B2	7/29/2008	Innovative Display Technologies LLC
5	US 7,434,974 B2	10/14/2008	Innovative Display Technologies LLC
6	US 7,537,370 B2	5/26/2009	Innovative Display Technologies LLC
7	US 7,914,196 B2	3/29/2011	Delaware Display Group LLC
8	US 8,215,816 B2	7/10/2012	Innovative Display Technologies LLC



AO 120 (Rev. 08/10)

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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court District of Delaware on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED 12/31/2013	U.S. DISTRICT COURT District of Delaware
PLAINTIFF Delaware Display Group LLC and Innovative Display Technologies LLC		DEFENDANT HTC Corporation and HTC America, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 See Attached		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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1	US 6,755,547 B2	6/29/2004	Innovative Display Technologies LLC
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3	US 7,384,177 B2	6/10/2008	Innovative Display Technologies LLC
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5	US 7,434,974 B2	10/14/2008	Innovative Display Technologies LLC
6	US 7,537,370 B2	5/26/2009	Innovative Display Technologies LLC
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Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED 12/31/2013	U.S. DISTRICT COURT District of Delaware
PLAINTIFF Delaware Display Group LLC and Innovative Display Technologies LLC		DEFENDANT LG Electronics, Inc., LG Electronics U.S.A., Inc., LG Display Co., Ltd., and LG Display America, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED 12/31/2013	U.S. DISTRICT COURT District of Delaware
PLAINTIFF Delaware Display Group LLC and Innovative Display Technologies LLC		DEFENDANT Pantech Corp. Ltd, and Pantech Wireless, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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5	US 7,434,974 B2	10/14/2008	Innovative Display Technologies LLC
6	US 7,537,370 B2	5/26/2009	Innovative Display Technologies LLC
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8	US 8,215,816 B2	7/10/2012	Innovative Display Technologies LLC

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 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED 12/31/2013	U.S. DISTRICT COURT District of Delaware
PLAINTIFF Delaware Display Group LLC and Innovative Display Technologies LLC		DEFENDANT Sony Corporation, Sony Corporation of America, Sony Electronics Inc., and Sony Mobile Communications (USA) Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK	(BY) DEPUTY CLERK	DATE
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 Copy 2—Upon filing document adding patent(s), mail this copy to Director    Copy 4—Case file copy

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	US 6,755,547 B2	6/29/2004	Innovative Display Technologies LLC
2	US 7,300,194 B2	11/27/2007	Innovative Display Technologies LLC
3	US 7,384,177 B2	6/10/2008	Innovative Display Technologies LLC
4	US 7,404,660 B2	7/29/2008	Innovative Display Technologies LLC
5	US 7,434,974 B2	10/14/2008	Innovative Display Technologies LLC
6	US 7,537,370 B2	5/26/2009	Innovative Display Technologies LLC
7	US 7,914,196 B2	3/29/2011	Delaware Display Group LLC
8	US 8,215,816 B2	7/10/2012	Innovative Display Technologies LLC



AO 120 (Rev. 08/10)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> P.O. Box 1450 Alexandria, VA 22313-1450	<b>REPORT ON THE                  FILING OR DETERMINATION OF AN                  ACTION REGARDING A PATENT OR                  TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court District of Delaware on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED 12/31/2013	U.S. DISTRICT COURT District of Delaware
PLAINTIFF Delaware Display Group LLC and Innovative Display Technologies LLC		DEFENDANT Vizio, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 See Attached		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY	<input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	US 6,755,547 B2	6/29/2004	Innovative Display Technologies LLC
2	US 7,300,194 B2	11/27/2007	Innovative Display Technologies LLC
3	US 7,384,177 B2	6/10/2008	Innovative Display Technologies LLC
4	US 7,404,660 B2	7/29/2008	Innovative Display Technologies LLC
5	US 7,434,974 B2	10/14/2008	Innovative Display Technologies LLC
6	US 7,537,370 B2	5/26/2009	Innovative Display Technologies LLC
7	US 7,914,196 B2	3/29/2011	Delaware Display Group LLC
8	US 8,215,816 B2	7/10/2012	Innovative Display Technologies LLC

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> P.O. Box 1450 Alexandria, VA 22313-1450	<b>REPORT ON THE                  FILING OR DETERMINATION OF AN                  ACTION REGARDING A PATENT OR                  TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:14-cv-00106	DATE FILED 2/21/2014	U.S. DISTRICT COURT for the Eastern District of Texas
PLAINTIFF Innovative Display Technologies LLC		DEFENDANT BMW of North America, LLC BMW Manufacturing Co., LLC
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 7,434,974	10/14/2008	Innovative Display Technologies LLC (see continuation attached)

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY
	<input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

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AO 120 CONTINUATION

PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
6 7,537,370	5/26/2009	Innovative Display Technologies LLC
7 8,215,816	7/10/2012	Innovative Display Technologies LLC
8 6,508,563	1/21/2003	Innovative Display Technologies LLC
9 6,886,956	5/3/2005	Innovative Display Technologies LLC
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AO 120 (Rev. 08/10)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> P.O. Box 1450 Alexandria, VA 22313-1450	<b>REPORT ON THE                  FILING OR DETERMINATION OF AN                  ACTION REGARDING A PATENT OR                  TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:14-cv-00200	DATE FILED 3/10/2014	U.S. DISTRICT COURT for the Eastern District of Texas
PLAINTIFF Innovative Display Technologies LLC		DEFENDANT Toyota Motor Corporation et al.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 7,434,974	10/14/2008	Innovative Display Technologies LLC (see continuation attached)

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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AO 120 CONTINUATION

PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
6 8,215,816	7/10/2012	Innovative Display Technologies LLC
7 6,508,563	1/21/2003	Innovative Display Technologies LLC
8 6,886,956	5/3/2005	Innovative Display Technologies LLC

AO 120 (Rev 08/10)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> P.O. Box 1450 Alexandria, VA 22313-1450	<b>REPORT ON THE                  FILING OR DETERMINATION OF AN                  ACTION REGARDING A PATENT OR                  TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:14-cv-00202	DATE FILED 3/10/2014	U.S. DISTRICT COURT for the Eastern District of Texas
PLAINTIFF Innovative Display Technologies LLC		DEFENDANT Nissan Motor Co., Ltd. and Nissan North America, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 7,434,974	10/14/2008	Innovative Display Technologies LLC (see continuation attached)

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY
	<input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading
PATENT OR TRADEMARK NO.	HOLDER OF PATENT OR TRADEMARK
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AO 120 CONTINUATION

PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
6 7,537,370	5/26/2009	Innovative Display Technologies LLC
7 8,215,816	7/10/2012	Innovative Display Technologies LLC



AO 120 (Rev. 08/10)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> P.O. Box 1450 Alexandria, VA 22313-1450	<b>REPORT ON THE                  FILING OR DETERMINATION OF AN                  ACTION REGARDING A PATENT OR                  TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court \_\_\_\_\_ for the Eastern District of Texas \_\_\_\_\_ on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:14-cv-00201	DATE FILED 3/10/2014	U.S. DISTRICT COURT for the Eastern District of Texas
PLAINTIFF Innovative Display Technologies LLC		DEFENDANT Hyundai Motor Group et al.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 7,404,660	7/29/2008	Innovative Display Technologies LLC
5 7,434,974	10/14/2008	Innovative Display Technologies LLC (see continuation attached)

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading		
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AO 120 CONTINUATION

PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
6 8,215,816	7/10/2012	Innovative Display Technologies LLC

AO 120 (Rev. 08/10)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> P.O. Box 1450 Alexandria, VA 22313-1450	<b>REPORT ON THE                  FILING OR DETERMINATION OF AN                  ACTION REGARDING A PATENT OR                  TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court \_\_\_\_\_ for the Eastern District of Texas on the following  
 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:14-cv-00222-JRG	DATE FILED 3/13/2014	U.S. DISTRICT COURT for the Eastern District of Texas
PLAINTIFF Innovative Display Technologies LLC		DEFENDANT American Honda Motor Co. Inc. et al.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6,775,547	6/29/2004	Innovative Display Technologies LLC
2 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 8,215,816	7/10/2012	Innovative Display Technologies LLC
5 6,508,563	1/21/2003	Innovative Display Technologies LLC
6 6,886,956	5/23/2005	Innovative Display Technologies LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

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AO 120 (Rev. 08/10)

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 Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:14-cv-00300	DATE FILED 4/7/2014	U.S. DISTRICT COURT for the Eastern District of Texas
PLAINTIFF Innovative Display Technologies LLC		DEFENDANT Volkswagen AG et al.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6,755,547	6/29/2004	Innovative Display Technologies LLC
2 7,300,194	11/27/2007	Innovative Display Technologies LLC
3 7,384,177	6/10/2008	Innovative Display Technologies LLC
4 7,404,660	7/29/2008	Innovative Display Technologies LLC
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7 6,886,956	5/3/2005	Innovative Display Technologies LLC