

Case IPR2015-00506

Patent 7,434,973

Filed on behalf of Delaware Display Group LLC

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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LG DISPLAY CO., LTD.,
Petitioner,

v.

DELAWARE DISPLAY GROUP LLC,
Patent Owner.

Case IPR2015-00506
U.S. Patent No. 7,434,973

PATENT OWNER'S RESPONSE

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I. INTRODUCTION

Patent Owner Delaware Display Group LLC, (“DDG” or “Patent Owner”) hereby files this response (“Response”) to the Petition (Paper 2) (the “Petition”) for *Inter Partes* Review of U.S. Patent No. 7,434,973 (the “’973 patent”) in IPR2015-00506 filed by LG Display Co., Ltd. (“LGD” or “Petitioner”).

The Petitioner’s challenge to the ’973 patent claims should be rejected because (1) the claims of the ’973 patent are entitled a priority date that predates the Shinohara reference, and thus Shinohara does not qualify as prior art; and (2) even if the Shinohara reference were prior art, it fails to disclose several claim limitations.

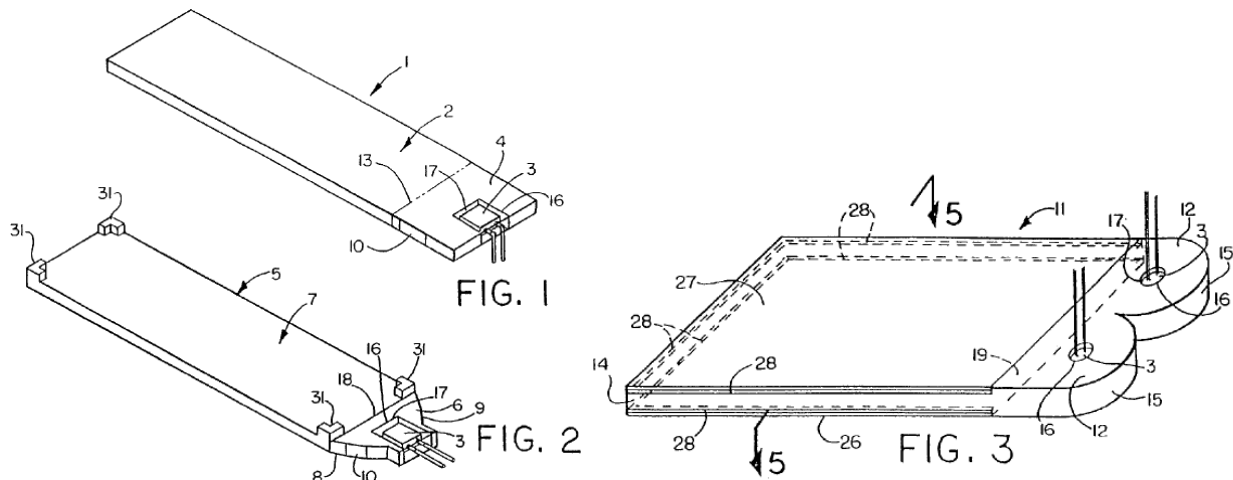
A. Instituted Grounds

The Board instituted this *inter partes* review on one ground of alleged invalidity: anticipation of claims 1-5 by Shinohara. For the reasons discussed in more detail below, this ground does not demonstrate by a preponderance of the evidence that the instituted claims of the ’973 patent are invalid.

B. The ’973 Patent

The ’973 patent “relates generally ... to light emitting panel assemblies.” ’973 patent, Ex. 1001, at 1:19-20. The ’973 patent’s written description notes that “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 more efficient utilization of light to suit a particular application.” *Id.* at 1:22-26.

Three examples of the “different forms of light emitting panel assemblies in accordance with this invention” (*Id.* at 2:40-42) are shown in Figures 1-3 of the ’973 patent.



The ’973 patent’s “Summary of the Invention” notes that “[i]n accordance with one aspect of the invention, the light emitting panel assemblies include a light emitting panel member having a pattern of individual light extracting deformities of well defined shapes on or in one or more surface areas of the light emitting panel member. *Id.* at 1:30-34. The “Summary of the Invention” section of the ’973 patent further notes that “in accordance with another aspect of the invention, the pattern of light extracting deformities may be uniform or variable as desired to obtain a desired light output distribution form the panel surface areas.” *Id.* at 2:1-4.

The ’973 patent also notes that “the size and shape as well as the depth or height and angular orientation and location of the light extracting deformities may

vary along the length and/or width of any given panel surface area to obtain a desired light output distribution from the panel member.” *Id.* at 2:5-10.

The summary of the invention of the ’973 patent also states that the “various light emitting panel assemblies of the present invention are relatively 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.” *Id.* at 2:23-28.

The ’973 patent describes that a “pattern of light extracting deformities or disruptions may be provided on 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.” *Id.* at 6:1-4. The ’973 patent continues, stating that “FIG. 4a schematically shows one such light surface area 20 on which a pattern of light extracting deformities or disruptions 21 is provided.” *Id.* at 6:4-6.

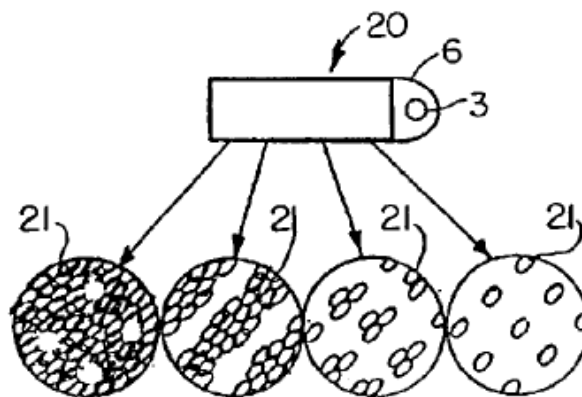


FIG. 4a

The '973 patent describes the deformities available for use on its panel assemblies in great detail. The '973 patent asserts that a “pattern of light extracting deformities or disruptions may be provided on 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.” *Id.* at 6:1-4. The '973 patent continues by disclosing that “[t]he 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 the light extracting deformities 21 are provided or reflected back through the panel and emitted out the other side.” *Id.* at 6:10-17.

The '973 patent also describes many ways for producing the deformities in the invention: “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.” *Id.* at 6:18-26.

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