

Filed on behalf of Innovative Display Technologies LLC  
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UNITED STATES PATENT AND TRADEMARK OFFICE  

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

K.J. PRETECH CO., LTD.,  
Petitioner,

v.

INNOVATIVE DISPLAY TECHNOLOGIES LLC,  
Patent Owner.

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Case IPR2015-01868  
U.S. Patent No. 7,434,974  

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**PATENT OWNER'S PRELIMINARY RESPONSE TO PETITION FOR  
*INTER PARTES* REVIEW**

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P.O. Box 1450

## **I. INTRODUCTION**

Pursuant to 37 C.F.R. § 42.107, Innovative Display Technologies (“IDT” or “Patent Owner”) files this Preliminary Response requesting that the Board deny institution of the Petition filed by K.J. Pretech Co. Ltd. (“Petitioner”) challenging U.S. Patent No. 7,434,974 (the “974 patent”). Patent Owner has timely filed this Preliminary Response within three months of the September 22, 2015, filing response date accorded to the Petition in Paper 3. 35 U.S.C. § 313 and 37 C.F.R. § 42.107.

The Board should deny this Petition because (1) it is time-barred; and (2) the prior art does not disclose all of the claim limitations. Patent Owner discusses those points in detail in its Argument section below. Before that discussion begins, Patent Owner includes the following sections designed to provide the Board with background information.

### ***A. Grounds in the Petition***

The Petition includes four grounds of alleged invalidity:

Ground 1: § 102(a) over Kisou (claims 1, 5, 7, 8, 10, 11);

Ground 2: § 103(a) over Kisou (claims 5, 10, 11);

Ground 3: § 103(a) over Kisou and Yagi (claims 3 & 4); and

Ground 4: § 103(a) over Furuya and Niizuma (claims 1, 3-5, 7-8, 10, 11).

***B. The '974 patent***

The '974 patent claims priority back to June 15, 1995. The patent generally discloses “light emitting panel assemblies” made from a specific arrangement of components that, when combined, create “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.” Ex. 1001 at 1:66 through 2:3.

At the time of the priority date of the '974 patent (over 20 years ago), the claimed inventions included novel components and a novel arrangement of those components. For example, the claims of the '974 patent include such things as (1) a panel member with a pattern of light extracting deformities that cause light to be emitted from the light emitting surface of the panel member; (2) an LED light source positioned near or against the light entrance surface of the panel; (3) a tray that provides structural support to the panel member and has posts, tabs, or other structural features that provide a mount for mounting of the assembly into a larger assembly or device; and (4) the tray having end walls and side walls that act as end edge reflectors and side edge reflectors for the panel member to reflect light that would otherwise exit the panel member through an end edge and/or side edge back

into the panel member and toward the pattern of light extracting deformities for causing additional light to be emitted from the light emitting surface of the panel member.

The written description of the '974 patent explains that the panel's deformities are "any change in the shape or geometry of the panel surface and/or coating or surface treatment that causes a portion of the light to be emitted." Ex. 1001 at 4:38-40. The '974 patent describes the functionality of the deformities with reference to Fig. 4a.

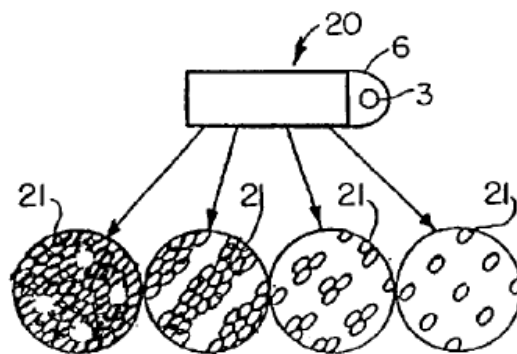


FIG. 4a

"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 the light extracting deformities 21 are provided or reflected back through the panel and emitted out the other side." Ex. 1001 at 4:41-47.



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