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

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UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No.	GLOLP0108USAE			
First Inventor	Jeffery R. Parker			
Title	LIGHT EMITTING PANEL			
Express Mail Label No.	EV839640355US			

(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No. EV839640355US				
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450				
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)	ACCOMPANYING APPLICATION PARTS				
Applicant Claims small entity status. See 37 CFR 1.27.	9. Assignment Papers (cover sheet & document(s))				
3. Specification [Total Pages 16] Both the claims and abstract must start on a new page	Name of Assignee				
(For information on the preferred arrangement, see MPEP 608.01(a)) 4. Drawing(s) (35 U.S.C. 113) [Total Sheets 4] Informal					
Oath or Declaration [Total Sheets 2] Newly executed (original or copy)	10. 37 CFR 3.73(b) Statement Power of Attorney				
b. A copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S)	11. English Translation Document (if applicable)				
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	12. Information Disclosure Statement (PTO/SB/08 or PTO-1449) Copies of citations attached				
6. Application Data Sheet. See 37 CFR 1.76	13. Preliminary Amendment				
7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) Landscape Table on CD	14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)				
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed)					
a. Computer Readable Form (CRF) b. Specification Sequence Listing on: 16. Nonpublication Request under 35 U.S.C. 122(b)(2)(EAP) Applicant must attach form PTO/SB/35 or equivalent					
i. CD-ROM or CD-R (2 copies); or ii. Paper	17. Other: Credit Card Payment				
c. Statements verifying identity of above copies	Form PTO-2038				
18. If a CONTINUING APPLICATION, check appropriate box, and suppoperation following the title, or in an Application Data Sheet under 37					
Continuation Divisional Continuat	ion-in-part (CIP) of prior application No. 10/784, 527				
Prior application information: Examiner Thomas M. Ser	nber An Unit: 2875				
19. CORRESPOND	DENCE ADDRESS				
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Name					
Address					
City State	Zip Code				
Country () 1 elephone	Fax				
Signature Lake Taller	Date March 17, 2006				
Name (Print/Type) Donald L. Otto	Registration No. (Attorney/Agent) 22, 125				

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Design	200	100	100	50	130	65	AAA
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
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Name (Print/Type) Donald L. Otto Date March 17, 2006

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UTILITY PATENT APPLICATION **TRANSMITTAL**

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Prior application information: Examiner Thomas M. Ser	mber An Unit: 2875				
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Name					
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Signature Lake Kuliu	Date March 17, 2006				
Name Donald L. Otto	Registration No.				

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Utility	Fee (\$) 300		<u>e (\$)</u> 00	Fee (\$)	Fee (\$) 200		\$1,000.00
Design	200			250	130	100	<u>\$1,000.00</u>
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Reissue	300		00	150	600	80	
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Date March 17,

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Name (Print/Type) Donald L. Otto

TITLE: LIGHT EMITTING PANEL ASSEMBLIES

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CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation 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 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.

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.

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 light input surface of the panel member.

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:

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

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;

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;

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;

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;

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;

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 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 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, 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 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 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 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.

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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 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 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.

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 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 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).

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

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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 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 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 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 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 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 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

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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.

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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

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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 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 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 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.

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 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 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

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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

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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

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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.

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.

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 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, 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.

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 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.

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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.

WHAT IS CLAIMED IS:

1. A light emitting panel assembly comprising at least a light emitting panel member having a light entrance surface and a light emitting surface, at least one LED light source positioned near or against the light entrance surface, and a tray or housing having a cavity or recess in which the panel member is received, wherein the panel member has a pattern of light extracting deformities on or in at least one surface to cause light to be emitted from the light emitting surface of the panel member, and the tray or housing acts as an end edge reflector and/or side edge reflector 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.

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- 2. The assembly of claim 1 wherein the tray or housing has posts, tabs or other structural features.
- The assembly of claim 2 wherein the posts or other structural
 features are used to facilitate mounting of the assembly into a larger assembly or device.
 - 4. The assembly of claim 2 wherein the posts or other structural features are used for mounting or providing structural support for at least one other part or component.
 - 5. The assembly of claim 4 wherein the other part or component is a liquid crystal display.

- 6. The assembly of claim 4 wherein the other part or component is a printed circuit.
 - 7. The assembly of claim 6 wherein the printed circuit is flexible.

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- 8. The assembly of claim 1 wherein the tray or housing also acts as a back reflector for the panel member.
- 9. The assembly of claim 1 wherein the tray or housing provides10 support for and/or positions a film near the panel member.
 - 10. The assembly of claim 9 wherein the film is a back reflector.
 - 11. The assembly of claim 9 wherein the film is a diffuser.

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- 12. The assembly of claim 9 wherein the film is a brightness enhancing film.
- 13. The assembly of claim 1 further comprising a film positioned near20 the light emitting surface of the panel member for changing the output ray angle distribution of the emitted light to fit a particular application.
 - 14. The assembly of claim 13 wherein the film has prismatic or lenticular deformities on at least one side of the film.

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15. The assembly of claim 1 wherein the light entrance surface is faceted to alter the light output distribution of the LED as the light enters the panel member.

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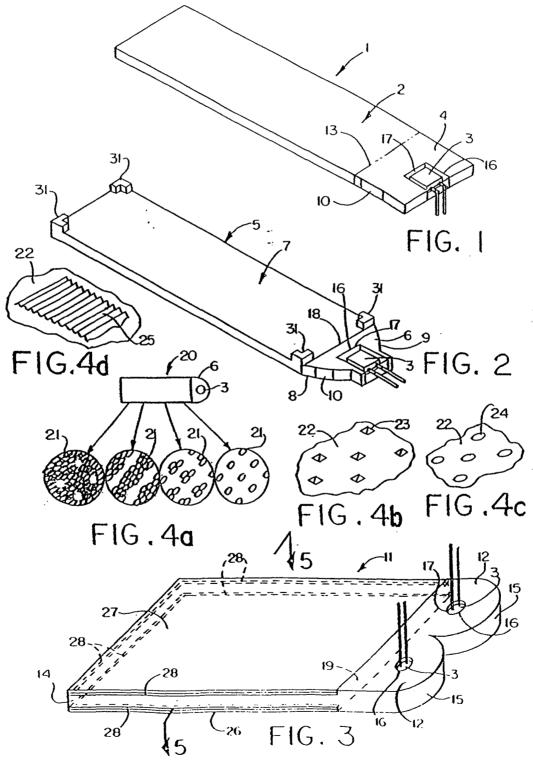
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ABSTRACT

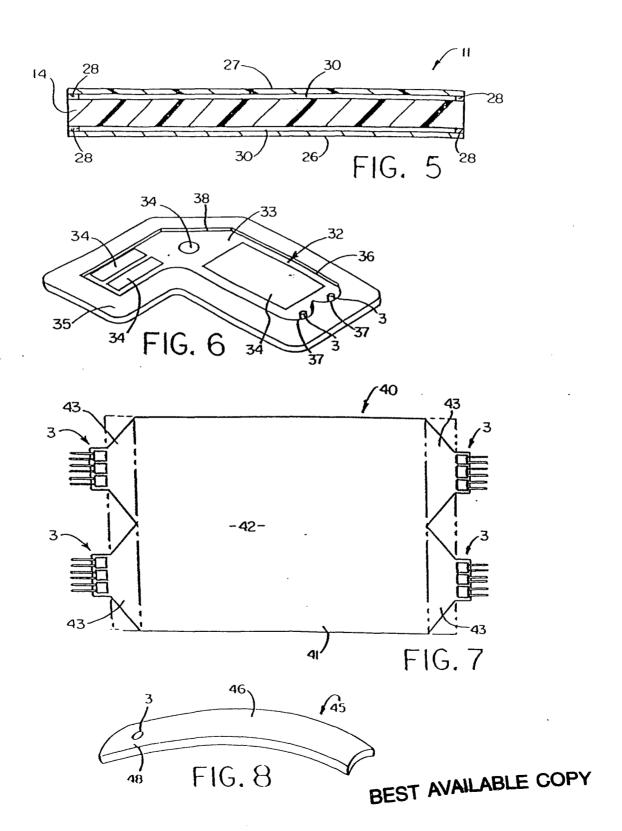
Light emitting panel assembly includes a light emitting panel member received in a cavity or recess in a tray or housing. The panel member has a pattern of light extracting deformities on or in at least one surface of the panel member to cause light received from at least one LED light source positioned near or against the light entrance surface of the panel member to be emitted from a light emitting surface of the panel member. The tray or housing acts as an end edge and/or side edge reflector for the panel member to reflect light that would otherwise exit the panel member through the end edge and/or side edge back into the panel member for causing additional light to be emitted from the panel member.

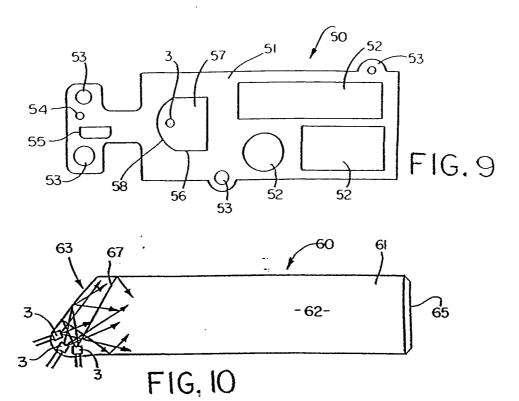
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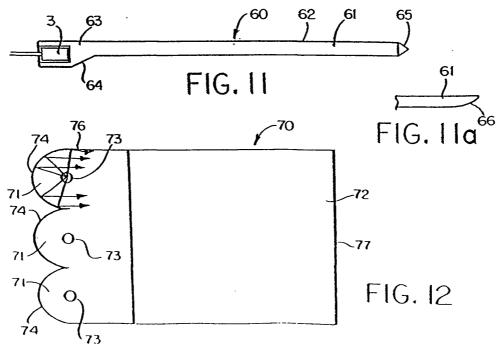
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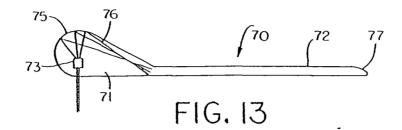
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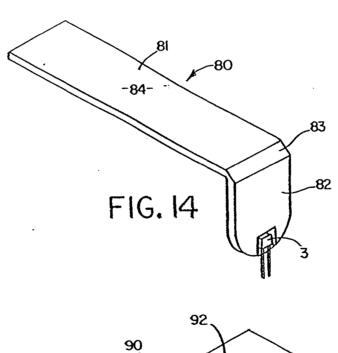


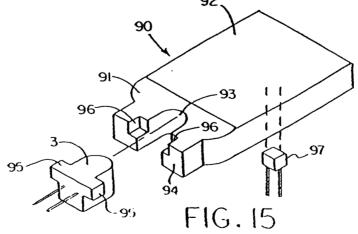




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COMBINED DECLARATION AND POWER OF ATTORNEY

(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

[X] is attached hereto, or

[] was filed as United States Application or PCT International Application (give Express Mail label number and deposit date if Application number not yet known):

Application No.:
(Express Mail Label No.)
Filing Date:
(Deposit Date)
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	2/23/04		
09/256,275	2/23/99	6,712,481	
08/778,089	1/02/97	6,079,838	
08/495,176	6/27/95	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

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.
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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.

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Inventor's signature:	JH1 K Pal	Date:	3/2/06
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Full Name of Ad	ditional Joint Inventor (if any):		
Inventor's signature:		Date:	
Residence: (City & Sta	te/Country):	Citizenship:	

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

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

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SEARCH FEE (37 CFR 1 18(1), (M. cr (m))	N/A		N/A.		N/A	\$250].	N/A	\$ 50 0
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USPTO to process) an application. Confidentiatily is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to completed, 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. Peterd and Tradement Office, U.S. Department of Commerce, P.O. Box 1450, Abacandria, 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.

Application Data Sheet

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23908

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Application Information

Title Line One::

LIGHT EMITTING PANEL ASSEMBLIES

Class::

Subclass::

Technology Center::

Total Drawing Sheets::

Drawing Figure for Publication:: Figure 6

Formal Drawings?::

Yes

Application Type::

Utility

Docket Number::

GLOLP0108USAE

Representative Information

Representative Customer Nº::

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Domestic Priority Information

This application is a::

CON

Application One::

10/784,527

Filing Date::

2/23/04

Which is a:: DIV

 Application Two::
 09/256,275

 Filing Date:
 2/23/99

 U.S. Pat. No.::
 6,712,481

Which is a:: CIP

 Application Three::
 08/778,089

 Filing Date:
 1/2/97

 U.S. Pat. No.::
 6,079,838

Which is a:: DIV

 Application Four:
 08/495,176

 Filing Date:
 6/27/95

 U.S. Pat. No.::
 5,613,751

Foreign Priority Information

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City:: Road Town, Tortola Country: British Virgin Islands

Postal or Zip Code::

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CERTIFICATE OF MAILING (37 CFR 1.8a)

I be by certify that this paper (along with any paper referred to as being attached or enclosed) is being be posited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Date: April 18, 2006

Donald L. Otto

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket GLOLP0108USAE

In re PATENT application of

Jeffery R. Parker

Serial Nº 11/378,080

Filed March 17, 2006

For: LIGHT EMITTING PANEL ASSEMBLIES

Art Unit 2875/Confirmation № 8860

REQUEST FOR CORRECTION OF FILING DATE/FILING RECEIPT

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

Sir:

The above-identified application was filed with the USPTO via Express Mail N° EV839640355US on March 17, 2006. A copy of the Express Mail receipt is enclosed. Also enclosed is a copy of the return postcard from the USPTO bearing Serial N° 11/378,080 and filing date "031706".

On the Filing Receipt mailed 04/10/2006 (copy enclosed) the filing date is given as 03/20/2006, which is incorrect.

Please correct this error and send a Corrected Filing Receipt to the undersigned.

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, LLP

Ву __

Donald L. Otto, Reg. Nº 22,125

1621 Euclid Avenue - 19th Floor Cleveland, Ohio 44115-2191 Phone: 216-621-1113

Fax:

216-621-6165

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LAW OFFICE OF RENNER OTTO	COMMISSIONER FOR PATENTS	
BUISSELLE & SKLAK. LLP	P.O. BOX 1450	
1621 EUCLIO AVE FL 19	ALEXANDRIA, VA 22313-1450	
CLEVELAND OH 44115-2114	ALEXANDRIA, VA 22313-1430	
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FOR PICKUP OR TRACKING: Visit WWW.USPS.COM or	Call 1-800-222-1811	

HUNTINGTON FINANCE STATION CLEVELAND, Ohio 441151411 3816630153-0098 (800)275-8777 04:48:48 PM 03/17/2006 Sales Receipt Final Unit Sale Product Price Qty Price Description ALEXANDRIA VA 22313 EM PO-Add Flat Rate 6.30 oz. \$14.40 EV839640355US Label #: Next Day Noon / Normal Delivery -\$14.40 \$0.00 Customer Postage Subtotal: \$0.00 Total: Paid by: Bill#: 1000201396529 Clerk: 03 - All sales final on stamps and postage.

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Serial No	Filing Date_	_herewit	h AttyDLO
TitleLIGHT_EMIT	TING PANEL	ASSEMBLIE	<u>s</u>
Mailed	Due Date N	/A	Ex. Mail NoRV839640355US
Y) Patent Application (X N	ew X_CONDI	VCIPCF	PAPCTProvisional)
X_ Transmittal Records	_ X _De	claration/Power of	f AttyExpress Mail Certification
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4 Sheets of Drawings	ID	S/1449/Refs.	Resp. to Missing Parts
X Application Data She	eetPr	iority Document(s	Ltr. Off. Draftsman
Request for Non-Put	olicationDe	ecl. Sec. 8 & 15	Notice of Appeal
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PATENT AND TRADEMARK OFFICE

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

APPL NO. | FILING OR 371 | ART UNIT | FIL FEE REC'D | ATTY.DOCKET NO | DRAWINGS | TOT CLMS | IND CLMS | 11/378,080 | 03/20/2006 | 2875 | 1000 | GLOLP0108USAE | 4 | 15 | 1

03/17/2006

CONFIRMATION NO. 8860

FILING RECEIPT

OC00000018490243

23908
RENNER OTTO BOISSELLE & SKLAR, LLP
1621 EUCLID AVENUE
NINETEENTH FLOOR
CLEVELAND, OH 44115

Date Mailed: 04/10/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Jeffery R. Parker, Richfield, OH;

Assignment For Published Patent Application

Solid State Opto Limited, Road Town, VIRGIN ISLANDS, BRITISH

Power of Attorney:

Donald Otto-22125

Domestic Priority data as claimed by applicant

This application is a CON of 10/784,527 02/23/2004 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

APR 1 2 2006

RENNER, OTID, SI, SI SELLE & SKLAR

Foreign Applications

If Required, Foreign Filing License Granted: 04/07/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US11/378,080

Projected Publication Date: 07/20/2006

Non-Publication Request: No

Early Publication Request: No

Title

Light emitting panel assemblies

Preliminary Class

362

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Information Disclosure Statement

Reply to Missing Parts under 37 CFR 1.52 or 1.53

Renner, Otto, Boisselle & Sklar, LLP

Certified Copy of Priority

Reply to Missing Parts/ Incomplete Application

Document(s)

Firm Name

Signature	Carlet Klin				*
Printed name	Donald L. Otto				
Date	May 25, 2006	Reg. No.	22,125		
	CERTIFICATE OF T	RANSMISSION/MA	LING		
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Typed or printed i	Donald L. Otto		Date	May 25, 2006	
process) an applica gathering, preparing amount of time you Trademark Office, U	ormation is required by 37 CFR 1.5. The information is rection. Confidentiality is governed by 35 U.S.C. 122 and 3 g, and submitting the completed application form to the require to complete this form and/or suggestions for red J.S. Department of Commerce, P.O. Box 1450, Alexand O: Commissioner for Patents, P.O. Box 1450, A	7 CFR 1.11 and1.14. This of USPTO. Time will vary depelucing this burden, should be Iria, VA 22313-1450. DO N	ollection is estima nding upon the in sent to the Chie OT SEND FEES	ated to 2 hours to complete, idividual case. Any commer f Information Officer, U.S. P	including its on the latent and

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Docket No. GLOLP0108USAE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Applicant:

Jeffery R. Parker

Serial No.:

11/378,080

Filed:

March 17, 2006

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.:
 10/784,527
 09/256,275
 08/778,089
 08/495,176

 Filing Date:
 2/23/04
 2/23/99
 01/02/97
 6/27/95

 Patent No.:
 6,712,481
 6,079,838
 5,613,751

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) X 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 after final rejection under 37 C.F.R. 1.	Action on the merits after a first or second submission 129(a).
	(d)	After the period set forth in 37 C.F.R. a notice of allowance.	1.97(b) but before the mailing date of either a final action or
	(1) The required certification is given	below, <u>or</u>
	(2) Enclosed is credit card payment (1.17(p) for consideration of this S	PTO Form-2038) covering the fee set forth in 37 C.F.R. tatement, or
	(3) Charge the fee set forth in 37 C.F	.R. 1.17(p) to Deposit Account No. 18-0988
	(e)		action or a notice of allowance, but before payment of the consideration of this Statement and the required
	(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.	Certifica	tion (if applicable)	
	(a)		each item of information contained in this Statement was foreign patent office in a counterpart foreign application ng of this Statement.
	(b)	cited in a communication from a foreig the undersigned's knowledge after mal	no item of information contained in this Statement was in patent office in a counterpart foreign application, and, to king reasonable inquiry, no item of information contained ividual designated in 37 C.F.R. 1.56(c) more than 3 ent.
5. Deposit A		nmissioner is hereby authorized to chargo. 18-0988.	ge any additional fees or credit any overpayment to
		f	Respectfully submitted,
		F	RENN ER, OT TO, BOISSELLE &SKLAR, LLP
			By Landel KChan Donald L. Otto, Reg. No. 22,125
	d, Ohio 4	e, 19th Floor 14115	, c
		CERTIFICATE OF MAILIN	IG UNDER 37 C.F.R. §1.8
deposited	d on the b	elow date with the United States Postal	saper referenced as being attached or enclosed) is being Service with sufficient postage as first class mail in an oner for Patents, R.O. Box 1450, Alexandria, VA 22313-
Date: <u>M</u>	ay 25, 200	06	Donald L. Otto
Z:\SEC177\GL	DL\P108USAE\I	DS-1449.wpd)	Donaid L. Ollo

Form PTO-1449 (Modified)	Atty Docket No.	Serial No.	
LIST OF PATENTS AND PUBLICATIONS	GLOLP0108USAE	11/378,080	
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT O 1000 (User everal sheets if necessary)	Applicant: Jeffery R. Parker		
	Filing Date	Group	
	March 17, 2006	2875	
3			
STRAUGE TRAUGE			

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	1		
	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	Document Number	Date	Country	Class	Sub-	Transla	
Initial		(MM/YYYY)			class	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\GLOL\P108USAE\IDS-1449.wpd (IDS-1449.FRM) (2/97)



COMMISSIONER FOR PATENTS UNITED STATES PATENT AND TRADEMARK OFFICE P.D. BOX 1450 ALEXANDRIA, VA 22313-1450

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

COPY MAILED

AUG 1 4 2006

OFFICE OF PETITIONS

In re Application of

Parker

DECISION ON PETITION

Application No. 11/378,080

Filed: March 17, 2006

Atty. Dkt. No.: GLOLP0108USAE

This decision is in response to the request for corrected filing receipt filed April 21, 2006. This matter is being properly treated as a petition under 37 CFR 1.10(c).

Petitioner alleges that the application was deposited in Express Mail Service on March 17, 2006. In support, the petition is accompanied by a copy of Express Mail receipt No. EV839640355US (the same Express Mail number found on the original application papers located in the official file) showing a "date in" of March 17, 2006.

The Office considers the date the paper or fee is shown to have been deposited as "Express Mail" to be the "date-in" on the Express Mail label, MPEP 513. The evidence is convincing that the application was deposited as "Express Mail" with the U.S. Postal Service on March 17, 2006.

In view thereof, the petition is GRANTED.

This application file is being forwarded to the Office of Initial Patent Examination (OIPE) for correction of the filing date to March 17, 2006 and for issuance of a corrected filing receipt.

Telephone inquiries regarding this decision should be directed to the undersigned at (571) 272-3205.

Brown Petitions Attorney Office of Petitions



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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/378,080	03/17/2006	Jeffery R. Parker	GLOLP0108USAE	8860
23908 RENNER OTT	7590 08/28/200 O BOISSELLE & SKI	EXAM	INER	
1621 EUCLID	AVENUE	SEMBER, T	HOMAS M	
NINETEENTH FLOOR CLEVELAND, OH 44115			ART UNIT	PAPER NUMBER
	,		2885	
			MAIL DATE	DELIVERY MODE
			08/28/2007	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.

•		<i>د</i>	_
,	Application No.	Applicant(s)	
	11/378,080	PARKER, JEFFERY R.	
Office Action Summary	Examiner	Art Unit	
	Thomas M. Sember	2885	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MC te, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. RBANDONED (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on 05/1	<u>13/06</u> .		
2a) This action is FINAL . 2b) ☑ Thi	s action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under	•	•	
	Lx parte Quayle, 1955 C.	D. 11, 400 O.G. 210.	•
Disposition of Claims			
4) ☐ Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.		
Application Papers		•	
9)☐ The specification is objected to by the Examin	er.		
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	·	• • •	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1 Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in pority documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage	
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) Pager No(s)/Mail Date 05/48/06	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Office Action Summary

Part of Paper No./Mail Date 20070728

Application/Control Number: 11/378,080

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DETAILED ACTION

Page 2

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 2. Claims 1-15 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-97 of U.S. Patent No. 5,613,751 and claims 1-34 of U.S. Patent No. 7,160,015. Although the conflicting claims are not identical, they are not patentably distinct from each other because applicant merely uses slightly different claim language to claim the same invention.
- 3. Claims 1-15 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-8, 10-17, 19-25 and 28-29 of copending Application No. 11/244,473; claims 1-41 of copending application 11/454,822 and claims 1-30 and 32 of copending application 11/245,408. Although the conflicting claims are not identical, they are not patentably distinct from

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each other because applicant merely uses slightly different claim language to claim the same invention.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

- 1. 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 negatived by the manner in which the invention was made.

Claims 1-4 and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schoniger et al '258 in view of (Kashima et al '928 or Borchardt '309).

Regarding claim 1, Schoniger et al (particularly figure 5) discloses at least a light emitting panel member 10 having a light entrance surface and a light emitting surface, at least one LED light source 15 positioned near or against the light entrance surface, and a tray or housing 20 having a cavity or recess in which the panel member is received, wherein the panel member 10 and the tray or housing acts as an end edge reflector 16 and/or side edge reflector 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. Regarding claim 2, the tray or housing has posts, tabs or other structural features 23.

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Regarding claim 3, the posts or other structural features 23 are used to facilitate mounting of the assembly into a larger assembly or device 27. Regarding claim 4, the post or other structural features 23 are used for mounting or providing structural support for at least one 26 other part or component. Regarding claim 6, the other part or component is a printed circuit 26.

Regarding claim 7, as broadly claimed the circuit board is at least somewhat flexible since it is thin.

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 negatived by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over (Ciupke et al' 354 or Tai et al '276) in view of Schoniger et al '483. (Ciupke et al' 354 or Tai et al '276) discloses the claimed invention except for the teaching of using an LED as the at least one light source. (Ciupke et al' 354 or Tai et al '276) discloses at least a light emitting panel member having a light entrance surface and a light emitting surface, at least one light source positioned near or against the light entrance surface, and a tray or housing (21, 66) having a cavity or recess in which the panel member is received, wherein the panel member and the tray or housing acts as an end edge reflector and/or

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side edge reflector 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.

5. Schoniger et al '483 teaches a light panel which is illuminated by red, green and blue LEDs in order to create efficient white light (see column 2, lines 49-65). It would have been obvious to one skilled in the art at the time the invention was made to substitute LEDs of Schoniger et al '483 for the light sources of (Tai et al '276 or Ciupke et al) in order to provide a more efficient, longer lasting and power saving white light source.

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.

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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 \$\frac{1}{2}1-272-1000.

Thomas M Sember Primary Examiner Art Unit 2885 Page 6

Form PTO-1449 (Modified)	Atty Docket No.	Serial No.			
LIST OF PATENTS AND PUBLICATIONS	GLOLP0108USAE	11/378,080			
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Jeffery R. Parker				
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,	3,043,947	7/1962	Albinger, Jr.			
	3,328,570	6/1967	Balchunas			
	3,241,256	3/1966	Viret et al			
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OTHER ART Examiner Author, Title, Date, Pertinent Pages, etc. Initial

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EXAMINER:

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Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation is 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 ant" 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 ant" status of any reference is a matter to be resolved during prosecution.

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Notice of References Cited Application/Control No. | Applicant(s)/Patent Under Reexamination PARKER, JEFFERY R. Examiner | Art Unit Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-5,390,276	02-1995	Tai et al.	385/146
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

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Part of Paper No. 20070728

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Applicant(s)/Patent under Reexamination

11/378,080

PARKER, JEFFERY R.

Examiner

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Thomas M. Sember

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Search Notes

Application/Control No.	Applicant(s)/Patent under Reexamination			
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INTERFERENCE SEARCHED								
Class	Subclass	Date	Examiner					
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Date: November 28, 2007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket GLOLP0108USAE

In re PATENT application of

Jeffery R. Parker

Serial No. 11/378,080

Confirmation No. 8860

Filed March 17, 2006

For: LIGHT EMITTING PANEL ASSEMBLIES

Art Unit 2885

Thomas M. Sember, Examiner

REPLY TO OFFICE ACTION OF AUGUST 28, 2007

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

Sir:

In reply to the Office Action of August 28, 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 5 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 panel assembly comprising at least a light emitting panel member having a light entrance surface and a light emitting surface, at least one LED light source positioned near or against the light entrance surface, and a tray or housing having a cavity or recess in which the panel member is entirely received, wherein the panel member has a pattern of light extracting deformities on or in at least one surface to cause light to be emitted from the light emitting surface of the panel member, and the tray or housing acts as an includes end walls and side walls that act as end edge reflector and/or side edge reflector 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.
- 2. (original): The assembly of claim 1 wherein the tray or housing has posts, tabs or other structural features.
- 3. (currently amended): The assembly of claim 2 wherein the posts or other structural features are used to facilitate provide a mount for mounting of the assembly into a larger assembly or device.
- 4. (currently amended): The assembly of claim 2 wherein the posts or other structural features are used for mounting or providing provide a mount or structural support for at least one other part or component.
- 5. (original): The assembly of claim 4 wherein the other part or component is a liquid crystal display.

6. (original): The assembly of claim 4 wherein the other part or component is a printed circuit.

7. (cancelled)

- 8. (currently amended): The assembly of claim 1 wherein the tray or housing also includes a bottom wall that acts as a back reflector for the panel member.
- 9. (currently amended): The assembly of claim 1 wherein the tray or housing provides <u>a</u> support for <u>supporting</u> and/or <u>positions</u> <u>positioning</u> a film near the panel member.

10. (cancelled)

11. (currently amended): The assembly of claim 9 wherein the film is <u>at least one</u> of a diffuser <u>and a brightness enhancing film</u>.

12. (cancelled)

13. (original): The assembly of claim 1 further comprising a film positioned near the light emitting surface of the panel member for changing the output ray angle distribution of the emitted light to fit a particular application.

14. (cancelled)

15. (original): The assembly of claim 1 wherein the light entrance surface is faceted to alter the light output distribution of the LED as the light enters the panel member.

- 16. (new): A backlight assembly comprising a panel having a light emitting area for illuminating a display panel, the panel having at least one of a tab, hole, cavity, or protrusion, and a tray for holding the panel, an additional component overlaying the panel, wherein the at least one of a tab, hole, cavity, or protrusion positions at least one of the tray or the additional component relative to the panel.
- 17. (new): The assembly of claim 16 wherein the tray includes at least one of a recess or cavity for positioning the panel entirely within the recess or cavity.
- 18. (new): The assembly of claim 16 wherein the at least one of a tab, hole, cavity, or protrusion holds the additional component away from the panel to create an air gap between the panel and the additional component.
- 19. (new): The assembly of claim 18 wherein the protrusion is molded into the panel and extends outward therefrom.
- 20. (new): The assembly of claim 19 wherein the protrusion comprises a post extending outward from the panel.
- 21. (new): The assembly of claim 16 wherein the additional component is a display panel.
- 22. (new): The assembly of claim 16 wherein the additional component is a film or substrate.
- 23. (new): The assembly of claim 16 further comprising a light source positioned relative to the panel by the at least one of a tab, hole, cavity, or protrusion.
- 24. (new): The assembly of claim 23 wherein the light source has a tab and the panel has a recess to receive the tab of the light source.

REMARKS/ARGUMENTS

Claims 1-6, 8, 9, 11, 13 and 15-24 are pending in the application, claims 1 and 16 being independent. Claims 7, 10, 12 and 14 have been cancelled. Claims 1, 3, 4, 8, 9 and 11 have been amended. Claims 16-24 have been added.

Claims 1-6, 8, 9, 11, 13 and 15 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-97 of US Patent 5,613,751 and claims 1-34 of US Patent 7,160,015. According to the Examiner, although the conflicting claims are not identical, they are not patentably distinct from each other because applicant merely uses slightly different claim language to claim the same invention.

Applicant respectfully disagrees with this rejection. Nevertheless, a terminal disclaimer in compliance with 37 CFR 1.321(c) is filed herewith to overcome the nonstatutory double patenting rejection based on US Patents 5,613,751 and 7,160,015.

Claims 1-6, 8, 9, 11, 13 and 15 are also provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-8, 10-17, 19-25 and 28-29 of copending Application No. 11/244,473; claims 1-41 of copending Application No. 11/454,822 and claims 1-30 and 32 of copending Application No. 11/245,408. According to the Examiner, although the conflicting claims are not identical, they are not patentably distinct from each other because applicant merely uses slightly different claim language to claim the same invention.

Application No. 11/244,473 is abandoned. Accordingly, withdrawal of the provisional nonstatutory obviousness-type double patenting rejection based on Application No. 11/244,473 is respectfully requested.

Moreover, applicant respectfully disagrees with the provisional nonstatutory obviousness-type double patenting rejection based on copending Application Nos. 11/454,822 and 11/245,408. Nevertheless, a provisional terminal disclaimer in compliance with 37 CFR 1.321(d) is filed herewith to overcome this provisional nonstatutory double patenting rejection based on copending Application Nos. 11/454,822 and 11/245,408.

Claims 1-4 and 6 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Schoniger et al (US Patent 5,027,258) in view of Kashima et al (US Patent 5,262,928) or Borchardt (US Patent 5,381,309).

Regarding claim 1, the Examiner contends Schoniger et al (particularly Fig. 5) discloses at least a light emitting panel member 10 having a light entrance surface and a light emitting surface, at least one LED light source 15 positioned near or against the light entrance surface, and a tray or housing 20 having a cavity or recess in which the panel member is received, wherein the panel member 10 and the tray or housing acts as an end edge reflector 16 and/or side edge reflector 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. However, it is respectfully submitted that the reflecting layer 16 of Schoniger is provided on the external surfaces of the light guide batten 12 at one end of the light guide panel 10 to redirect the light from the LED 15 that is received in a blind hole 14 in the batten 12 into the end of the light guide panel 10 that is set in the groove 11 in the batten. The so-called tray or housing 20 of Schoniger does not include end walls and

side walls that act as end edge reflectors and side edge reflectors for a panel member entirely received in a cavity or recess in the tray or housing to reflect light that would otherwise exit the panel member through an end edge and/or side edge of the panel member back into the panel member as recited in claim 1 as amended. Accordingly, claim 1 is submitted as clearly allowable over these references.

The Examiner's attention is invited to an Office Action in a related US Application Serial No. 11/244,544 and any replies filed therein. The Examiner in that application, Thomas Sember, is also the Examiner in this application.

Claims 1-4 and 6 depend from claim 1 and are submitted as allowable for substantially the same reasons.

Claims 1-6, 8, 9, 11, 13 and 15 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Ciupke (US Patent 5,485,354) or Tai et al (US Patent 5,390,276) in view of Schoniger et al (US Patent 5,136,483). According to the Examiner, the light source 21 of Ciupke et al and light source fixture 66 of Tai et al comprise a tray or housing having a cavity or recess in which the panel member is received, and acts as an end edge reflector and/or side edge reflector for the panel member. Applicant disagrees. Moreover, the light source 21 of Ciupke et al and light source fixture 66 of Tai et al do not have a cavity or recess in which the panel member is entirely received or end walls and side walls that act as end edge reflectors and side edge reflectors for the panel member as recited in claim 1 as amended. Accordingly, claim 1 is submitted as allowable over these references.

Claims 2-6, 8, 9, 11, 13 and 15 depend from claim 1 and are submitted as allowable for substantially the same reasons. Moreover, claims 8-11 and 15 further

patentably distinguish over the cited references, claim 8 by reciting that the tray or housing includes a bottom wall that acts as a back reflector for the panel member; claims 9-11 by reciting that the tray or housing provides a support for supporting and/or positioning a film such as a diffuser or a brightness enhancing film near the panel member; and claim 15 by reciting that the light entrance surface is faceted to alter the light output distribution of the LED as the light enters the panel member.

Claim 16 is directed to a backlight assembly including, *inter alia*, a tray for holding a light emitting panel having at least one of a tab, hole, cavity, or protrusion, and an additional component overlying the panel, wherein at least one of the tab, hole, cavity, or protrusion positions at least one of the tray or the additional component relative to the panel. It is not seen wherein any of the cited references discloses or suggests such a backlight assembly. Accordingly, claim 16 is submitted as allowable over the cited references.

Claims 17-24 depend from claim 16 and further patentably distinguish over the cited references, claim 17 by reciting that the tray includes at least one of a recess or cavity for positioning the panel entirely within the recess or cavity; claims 18-20 by reciting that the at least one tab, hole, cavity, or protrusion holds the additional component away from the panel to create an air gap between the panel and the additional component; claims 21 and 22 by reciting that the additional component is a display panel or film or substrate; claim 23 by reciting a light source positioned relative to the panel by at least one of the tab, hole, cavity, or protrusion; and claim 24 by reciting that the light source has a tab and the panel has a recess for receiving the tab of the light source.

For the foregoing reasons, this application is now believed to be in condition for final allowance of all of the pending claims 1-6, 8, 9, 11, 13 and 15-24, and early action to that end is earnestly solicited.

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 GLOLP0108USAE).

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, LLP

Βv

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dotto@rennerotto.com

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Electronic Patent Application Fee Transmittal							
Application Number:	11	378080					
Filing Date:	17	-Mar-2006					
Title of Invention:	Light emitting panel assemblies						
First Named Inventor/Applicant Name:	Je	ffery R. Parker					
Filer:		Donald L. Otto/Jeanne Murphy					
Attorney Docket Number:	Gl	OLP0108USAE					
Filed as Large Entity							
Utility Filing Fees							
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
Basic Filing:							
Pages:							
Claims:							
Miscellaneous-Filing:							
Petition:							
Patent-Appeals-and-Interference:							
Post-Allowance-and-Post-Issuance:							
Statutory disclaimer		1814	2	130	260		
Extension-of-Time:							

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
	Tota	al in USE	(\$)	260

Electronic Acknowledgement Receipt					
EFS ID:	2517577				
Application Number:	11378080				
International Application Number:					
Confirmation Number:	8860				
Title of Invention:	Light emitting panel assemblies				
First Named Inventor/Applicant Name:	Jeffery R. Parker				
Customer Number:	23908				
Filer:	Donald L. Otto/Jeanne Murphy				
Filer Authorized By:	Donald L. Otto				
Attorney Docket Number:	GLOLP0108USAE				
Receipt Date:	28-NOV-2007				
Filing Date:	17-MAR-2006				
Time Stamp:	12:04:27				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$260
RAM confirmation Number	6561
Deposit Account	
Authorized User	

File Listing:

	Size(Bytes) Multi ssage Digest Part /.zip	Pages (if appl.)
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	Applicant Arguments/Remarks Made in an Amendment		5	9	
	Claims		2	4	
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2	Terminal Disclaimer Filed	GLOLP0108USAEtdpatents. pdf	67804 c025c485ed49952cd9d550adt2at374d	no	1
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1	Terminal Disclaimer Filed	GLOLP0108USAEtdapplicati ons.pdf	1057c591f6f557128ccba7c2551fb86a7ff 31442	no	1
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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

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Docket Number (Optional)

REJECTION OVER A PENDING "REFERENCE" APPLICATION GLOLP0108USAE In re Application of: Jeffery R. Parker Application No.: 11/378,080 Filed: March 17, 2006 For: LIGHT EMITTING PANEL ASSEMBLIES The owner*, Solid State Opto Limited, of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s) 11/454,822, filed 6/16/06 and 11/245,408, filed 10/6/05, as such term is defined in 35 U.S.C. 154 and 173, and as the term of any patent granted on said reference applications may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference applications. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference applications are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns. In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of any patent granted on said reference applications, "as the term of any patent granted on said reference applications may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference applications", in the event that: any such patent: granted on the pending reference applications: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant. Check either box 1 or 2 below, if appropriate. 1. For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization. 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 the knowledge that willful false statements and the like so made 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. 2. ✓ The undersigned is an attorney or agent of record. Reg. No. 22,125 Date Donald L. Otto Typed or printed name 216-621-1113 Telephone Number ✓ Terminal disclaimer fee under 37 CFR 1.20(d) is included. 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.

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*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).

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GLOLP0108USAF **REJECTION OVER A "PRIOR" PATENT** In re Application of: Jeffery R. Parker Application No.: 11/378,080 Filed: March 17, 2006 For: LIGHT EMITTING PANEL ASSEMBLIES The owner*, Solid State Opto Limited, of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent Nos. 5,613,751 and 7,160,015 as the term of said prior patents is defined in 35 U.S.C. 154 and 173, and as the term of said prior patents is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patents are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns. In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of the prior patents, "as the term of said prior patents is presently shortened by any terminal disclaimer", in the event that said prior patents expire for failure to pay a maintenance fee; are held unenforceable: are found invalid by a court of competent jurisdiction; are statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; have all claims canceled by a reexamination certificate; are reissued: or are in any manner terminated prior to the expiration of their full statutory term as presently shortened by any terminal disclaimer. Check either box 1 or 2 below, if appropriate. For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization. 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 the knowledge that willful false statements and the like so made 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. 2. ✓ The undersigned is an attorney or agent of record. Reg. No. 22,125 11/28/07 Signature Date Donald L. Otto Typed or printed name 216-621-1<u>113</u> Telephone Number Terminal disclaimer fee under 37 CFR 1.20(d) included. 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. *Statement_under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

This collection of information is required by 37 CFR 1.321. 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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Substitute for Form PTO-875								11/3/8,080 03/17/2006							
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	BASIC FEE (37 CFR 1.16(a), (b),	or (c))	N/A		N/A		N/A		1	N/A					
	SEARCH FEE (37 CFR 1.16(k), (i),		N/A		N/A		N/A		1	N/A					
	EXAMINATION FE (37 CFR 1.16(o), (p),	E	N/A		N/A		N/A		N/A		N/A		1	N/A	
	TAL CLAIMS CFR 1.16(i))		mir	nus 20 = *			x \$ =		OR	x \$ =					
	EPENDENT CLAIN CFR 1.16(h))	IS	m	inus 3 = *			x \$ =		1	x \$ =					
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* If 1	the difference in col	umn 1 is less than	zero, ente	r "0" in column 2.			TOTAL			TOTAL					
	APP	LICATION AS (Column 1)	AMEND	DED – PART II (Column 2) (Column 3)			SMAL	L ENTITY	OR		ER THAN ALL ENTITY				
AMENDMENT	11/28/2007	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)				
ME	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x \$ =		OR	X \$50=	0				
Ä	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0		x \$ =		OR	X \$210=	0				
AMI	Application S	ize Fee (37 CFR 1	.16(s))												
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							TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0				
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** If	the entry in column the "Highest Numb f the "Highest Numb	er Previously Paid	For" IN Th	HIS SPACE is less	than 20, enter "20"	,		nstrument Ex s. charrissa	kamin	ier:					

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

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
11/378,080	03/17/2006	Jeffery R. Parker	GLOLP0108USAE	8860				
	7590 03/06/200 O BOISSELLE & SKI		EXAM	INER				
1621 EUCLID NINETEENTH	AVENUE	3. 11., 2.2.	SEMBER, THOMAS M					
CLEVELAND,			ART UNIT	PAPER NUMBER				
			2885					
			MAIL DATE	DELIVERY MODE				
			03/06/2008	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.

	1								
	Application No.	Applicant(s)							
Office Action Summers	11/378,080	PARKER, JEFFERY R.							
Office Action Summary	Examiner	Art Unit							
	Thomas M. Sember	2885							
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	he correspondence address							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versilure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS , cause the application to become ABAND	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).							
Status									
1) Responsive to communication(s) filed on <u>28 November 2007</u> . 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 <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims									
4) Claim(s) 1-6,8,9,11,13 and 15-24 is/are pendir 4a) Of the above claim(s) is/are withdray 5) Claim(s) 1-6,8,9,11,13 and 15 is/are allowed. 6) Claim(s) 16-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.								
Application Papers									
9)☐ The specification is objected to by the Examine	r.								
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b)□ objected to by t	the Examiner.							
Applicant may not request that any objection to the		· ·							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex									
Priority under 35 U.S.C. § 119									
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)		(DTO 442)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Ma	mary (PTO-413) ail Date mal Patent Application							

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. 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 16-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Kitazawa et al '431. Kitazawa et al '431 discloses a panel 12 having a light emitting area for illuminating a display panel, the panel having at least one of a tab, hole, cavity, or protrusion (12a or 12b), and a tray (18 and 20) for holding the panel 12, an additional component (11 and 13) overlaying the panel 12, wherein the at least one of a tab, hole, cavity, or protrusion (12a or 12b cavity 12a and 12b form side protrusions) positions at least one of the tray (18 and 20) or the additional component (11 and 13) relative to the panel 12. And the LED connectors form tabs to fit in panel recess.

Allowable Subject Matter

1. Claims 1-6, 8-9, 11, 13 and 15 are allowed for the reasons stated in applicant's amendment and response filed on 11/28/07.

Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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

Application	Number

Application/Control No.	Applicant(s)/Patent under Reexamination PARKER, JEFFERY R.						
11/378,080							
Examiner	Art Unit						
Thomas M. Sember	2885						

U.S. Patent and Trademark Office

In	idex of	Claims	;
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Application/Control No.

Applicant(s)/Patent under Reexamination

11/378,080

PARKER, JEFFERY R.

Examiner

Art Unit

√ Rejected
= Allowed

_	(Through numeral) Cancelled
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N	Non-Elected
1	Interference

Thomas M. Sember

A	Appeal
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Application/Control No.	Applicant(s)/Patent under Reexamination					
11/378,080	PARKER, JEFFERY R.					
Examiner	Art Unit					
Thomas M. Sember	2885					

SEARCHED												
Class	Subclass	Date	Examiner									

INTERFERENCE SEARCHED					
Class	Subclass	Date	Examiner		

SEARCH NOTES (INCLUDING SEARCH STRATEGY)				
	DATE	EXMR		
Updated search	2/29/2008	/TS/		

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.

X being transmitted via the USPTO Electronic Filing System.

Date: April 16, 2008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket GLOLP0108USAE

In re PATENT application of

Jeffery R. Parker

Serial No. 11/378,080

Confirmation No. 8860

Filed March 17, 2006

For: LIGHT EMITTING PANEL ASSEMBLIES

Art Unit 2885

Thomas M. Sember, Examiner

REPLY TO FINAL OFFICE ACTION OF MARCH 6, 2008

Mail Stop AF Commissioner for Patents PO Box 1450 Alexandria, Virginia 22313-1450

Sir:

In reply to the final Office Action of March 6, 2008, please amend the above-identified application as follows:

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

Remarks/Arguments begin on page 6 of this paper.

Amendments to the Claims:

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

Listing of Claims:

1 (previously presented): A light emitting panel assembly comprising at least a light emitting panel member having a light entrance surface and a light emitting surface, at least one LED light source positioned near or against the light entrance surface, and a tray or housing having a cavity or recess in which the panel member is entirely received, wherein the panel member has a pattern of light extracting deformities on or in at least one surface to cause light to be emitted from the light emitting surface of the panel member, and the tray or housing includes 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.

2 (original): The assembly of claim 1 wherein the tray or housing has posts, tabs or other structural features.

3 (previously presented): The assembly of claim 2 wherein the posts or other structural features provide a mount for mounting of the assembly into a larger assembly or device.

4 (previously presented): The assembly of claim 2 wherein the posts or other structural features provide a mount or structural support for at least one other part or component.

5 (original): The assembly of claim 4 wherein the other part or component is a liquid crystal display.

6 (original): The assembly of claim 4 wherein the other part or component is a printed circuit.

7 (cancelled)

8 (previously presented): The assembly of claim 1 wherein the tray or housing includes a bottom wall that acts as a back reflector for the panel member.

9 (previously presented): The assembly of claim 1 wherein the tray or housing provides a support for supporting and/or positioning a film near the panel member.

10 (cancelled)

11 (previously presented): The assembly of claim 9 wherein the film is at least one of a diffuser and a brightness enhancing film.

12 (cancelled)

13 (original): The assembly of claim 1 further comprising a film positioned near the light emitting surface of the panel member for changing the output ray angle distribution of the emitted light to fit a particular application.

14 (cancelled)

15 (original): The assembly of claim 1 wherein the light entrance surface is faceted to alter the light output distribution of the LED as the light enters the panel member.

16 (currently amended): A backlight assembly comprising a panel having a light emitting area for illuminating a display panel, the panel having at least one of a tab, hole, cavity, or protrusion, and a tray for holding the panel, The assembly of claim 1 further comprising an additional component overlaying the panel member, wherein the panel member having at least one of a tab, hole, cavity, or protrusion that positions at least one of the tray or the additional component relative to the panel member.

17 (currently amended): The assembly of claim 16 wherein the tray includes at least one of a recess or cavity for positioning the panel <u>member</u> entirely within the recess or cavity.

18 (currently amended): The assembly of claim 16 wherein the at least one of a tab, hole, cavity, or protrusion holds the additional component away from the panel <u>member</u> to create an air gap between the panel <u>member</u> and the additional component.

19 (currently amended): The assembly of claim 18 wherein the protrusion is molded into the panel <u>member</u> and extends outward therefrom.

20 (currently amended): The assembly of claim 19 wherein the protrusion comprises a post extending outward from the panel <u>member</u>.

21 (previously presented): The assembly of claim 16 wherein the additional component is a display panel.

22 (previously presented): The assembly of claim 16 wherein the additional component is a film or substrate.

23 (currently amended): The assembly of claim 16 further comprising a wherein the light source is positioned relative to the panel member by the at least one of a tab, hole, cavity, or protrusion.

24 (currently amended): The assembly of claim 23 wherein the light source has a tab and the panel <u>member</u> has a recess to receive the tab of the light source.

REMARKS/ARGUMENTS

Claims 1-6, 8, 9, 11, 13 and 15-24 are pending in the application, claim 1 being independent. Claims 7, 10, 12 and 14 have been cancelled. Claims 16-20, 23 and 24 have been amended.

The allowance of claims 1-6, 8, 9, 11, 13 and 15 is noted with appreciation. Claims 16-24 have been amended to depend from allowed claim 1 and are also now presumed allowable.

Since this reply obviously places the application in condition for allowance and does not raise any new issues that would require further consideration or search, entry of this reply and allowance of all of the pending claims 1-6, 8, 9, 11, 13 and 15-24 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 GLOLP0108USAE).

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, LLP

Donald L. Otto

Registration No. 22,125

1621 Euclid Avenue 19th Floor

Cleveland, Ohio 44115-2191 Telephone: 216-621-1113 Facsimile: 216-621-6165

E-mail: dotto@rennerotto.com

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Electronic Acknowledgement Receipt				
EFS ID:	3163331			
Application Number:	11378080			
International Application Number:				
Confirmation Number:	8860			
Title of Invention:	Light emitting panel assemblies			
First Named Inventor/Applicant Name:	Jeffery R. Parker			
Customer Number:	23908			
Filer:	Donald L. Otto/Jeanne Murphy			
Filer Authorized By:	Donald L. Otto			
Attorney Docket Number:	GLOLP0108USAE			
Receipt Date:	16-APR-2008			
Filing Date:	17-MAR-2006			
Time Stamp:	16:53:19			
Application Type:	Utility under 35 USC 111(a)			

Payment information:

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File Listin	ng:					
Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)	
1		GLOLP0108USAEreply.pdf	165938	yes	7	
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	Multipart Description/PDF files in .zip description					
	Document Description	Start	End			
	Amendment After Final	1	1			
	Claims	2	5			
	Applicant Arguments/Remarks Made in an Amendment	6	7			
Warnings:						
Information	:					
	Total Files Size (in bytes): 165938					

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/06 (07-06)

Approved for use through 1/31/2007. OMB 0651-0032 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. Application or Docket Number PATENT APPLICATION FEE DETERMINATION RECORD Filing Date 03/17/2006 11/378,080 ___ To be Mailed Substitute for Form PTO-875 APPLICATION AS FILED - PART I OTHER THAN (Column 1) (Column 2) SMALL ENTITY OR SMALL ENTITY NUMBER FILED RATE (\$) FEE (\$) FOR NUMBER EXTRA RATE (\$) FEE (\$) ☐ BASIC FEE N/A N/A N/A N/A SEARCH FEE N/A N/A N/A N/A (37 CFR 1.16(k), (i), or (m)) **EXAMINATION FEE** N/A N/A N/A N/A (37 CFR 1.16(o), (p), or (q) TOTAL CLAIMS OR minus 20 = X \$ X \$ (37 CFR 1.16(i)) INDEPENDENT CLAIMS X \$ X \$ minus 3 = (37 CFR 1.16(h)) If the specification and drawings exceed 100 sheets of paper, the application size fee due ☐ APPLICATION SIZE FEE is \$250 (\$125 for small entity) for each (37 CFR 1.16(s)) 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)) TOTAL * If the difference in column 1 is less than zero, enter "0" in column 2. TOTAL APPLICATION AS AMENDED - PART II OTHER THAN SMALL ENTITY OR SMALL ENTITY (Column 1) (Column 2) (Column 3) CLAIMS HIGHEST REMAINING PRESENT ADDITIONAL ADDITIONAL RATE (\$) 04/16/2008 RATE (\$) PREVIOUSLY FEE (\$) FEE (\$) **EXTRA** ENDMEN. **AMENDMENT** PAID FOR Total (37 CFR ** 20 * 20 Minus = 0 OR X \$50= 0 X \$ ***3 = 0 0 OR * 1 Minus X \$ X \$210= ₹ Application Size Fee (37 CFR 1.16(s)) FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) OR TOTAL TOTAL ADD'L OR ADD'L 0 FEE (Column 1) (Column 2) (Column 3) HIGHEST ADDITIONAL REMAINING PRESENT ADDITIONAL NUMBER RATE (\$) RATE (\$) PREVIOUSLY FEE (\$) **AFTER EXTRA** FEE (\$) AMENDMENT Total (37 CFR Minus X \$ OR AMENDMEN *** X \$ OR X \$ Application Size Fee (37 CFR 1.16(s)) OR FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) TOTAL TOTAL ADD'L OR ADD'L FFF * If the entry in column 1 is less than the entry in column 2, write "0" in column 3. Legal Instrument Examiner: ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". /AMANDA FORD/

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

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/378,080	03/17/2006	Jeffery R. Parker	GLOLP0108USAE	8860
	7590 05/08/200 O BOISSELLE & SKI	EXAMINER SEMBER, THOMAS M		
1621 EUCLID	AVENUE			
NINETEENTH FLOOR CLEVELAND, OH 44115			ART UNIT	PAPER NUMBER
		2885		
			MAIL DATE	DELIVERY MODE
			05/08/2008	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.

	T							
	Application No.	Applicant(s)						
Office Action Summers	11/378,080	PARKER, JEFFERY R.						
Office Action Summary	Examiner	Art Unit						
	Thomas M. Sember	2885						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	he correspondence address						
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 16 April 2007. 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) 1-6,8,9,11,13 and 15-24 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) 1-6, 8-9, 11, 13 and 15-24 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 Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by t drawing(s) be held in abeyance. ion is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).						
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	Paper No(s)/Ma	mary (PTO-413) ail Date nal Patent Application						

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

DETAILED ACTION

Allowable Subject Matter

1. The indicated allowability of claims is withdrawn in view of the newly discovered reference(s) to Sakuma et al '888, Tada '046 and Li et al '754. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

- 2. 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 negatived by the manner in which the invention was made.
- 3. Claims 1-4, 6, 8-9, 11, 16-21 and 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakuma et al '888. Sakuma et al '888 (particularly figure 7) discloses the claimed invention except for the teaching that the light source is an LED. Sakuma et al '888 discloses a light source 46, reflective tray (45 and 56), light panel (39), tabs or post 42 and 38, deformities (44 and 137) and circuit board 47. It would have been obvious to one skilled in the art at the time the invention was made to substitute an LED for the light source of Sakuma et al '888 in order to provide an efficient long last light source. Regarding claims 9-10 as broadly claimed the tray provides a support is capable of providing support for a film near the panel member.

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 negatived by the manner in which the invention was made.
- 5. Claims 1-4, 8-9, 11, 13 and 16-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murase et al '493. Murase et al '493 discloses the claimed invention except for the teaching that the light source is an LED. Murase et al '493 discloses a light source 35, reflective tray (30-32), reflection film 29, light panel (21), tabs 30 and deformities 23. It would have been obvious to one skilled in the art at the time the invention was made to substitute an LED for the light source of Murase et al '483 in order to provide an efficient long last light source. Regarding claims 9-10 as broadly claimed the tray provides a support is capable of providing support for a film near the panel member.

Claim Rejections - 35 USC § 103

- 6. 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 negatived by the manner in which the invention was made.
- 7. Claims 1-6, 8-9, 11, 13, 16-21 and 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tada '046 in view of Murase et al '493. Tada '046 discloses the claimed invention except for the teaching that the light source is an LED and the

light panel having light extracting deformities. Sakuma et al '888 discloses a light source 10, reflective tray (12), light panel (11), tabs or post 5a and 5h, deformities (44 and 137) and circuit board 47. It would have been obvious to one skilled in the art at the time the invention was made to substitute an LED for the light source of Tada '046 in order to provide an efficient long last light source. Regarding claims 9-10 as broadly claimed the tray provides a support is capable of providing support for a film near the panel member. Murase et al '493 teaches a light panel having light extracting deformities. It would have been obvious to one skilled in the art at the time the invention was make the light panel of Tada '046 with light extracting deformities in order to efficiently transmit light from the display.

Claim Rejections - 35 USC § 103

- 8. 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 negatived by the manner in which the invention was made.
- 9. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over (Sakuma et al '888 or Murase et al '493 or Tada '046) as applied above in view of Li et al '754. (Sakuma et al '888 or Murase et al '493 or Tada '046) discloses the claimed invention except for the teaching that the light entrance surface is faceted. Li et al '754 taechesa light panel having a light entrance surface which is faceted 28. It would have been obvious to one skilled in the art at the time the invention was made to make the light panel's entrance surface of (Sakuma et al '888 or Murase et al '493 or Tada '046)

with facets as taught by Li et al '754 in order to efficiently transmit and alter light entering the light panels of (Sakuma et al '888 or Murase et al '493 or Tada '046).

Response to Arguments

10. Applicant's arguments with respect to claims 1-6, 8-9, 11, 13 and 15-24 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

1. Applicant's amendment on 11/28/07 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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

Application/Control No. Applicant(s)/Patent Under Reexamination 11/378,080 PARKER, JEFFERY R. Notice of References Cited Art Unit Examiner Page 1 of 1 Thomas M. Sember 2885 **U.S. PATENT DOCUMENTS** Document Number Date Name Classification Country Code-Number-Kind Code MM-YYYY US-5,434,754 07-1995 Li et al. 362/511 US-5,050,046 Tada, Masahiko 09-1991 362/26 В US-5,184,888 02-1993 Sakuma et al. 362/136 С D US-US-Е US-F US-G US-Н US-US-US-Κ US-US-Μ FOREIGN PATENT DOCUMENTS Document Number Date Name Classification Country Country Code-Number-Kind Code MM-YYYY Ν 0 Ρ Q R s Т **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) U

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.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

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Notice of References Cited

Part of Paper No. 20080501

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Index of Claims	11378080	PARKER, JEFFERY R.
	Examiner	Art Unit
	Thomas M Sember	2885

F	Rejected		Cancelled	N	Non-Elected	d	Α	Appeal
=	Allowed	÷	Restricted	I	Interference	е	0	Objected
] Claims	renumbered	in the same or	der as presented by ap	plicant	☐ CPA	\ [☐ T.D.	☐ R.1.47
CL	AIM				DATE			
Final	Original	05/01/2008						
	1	√						
	2	√						
	3	√						
	4	√						
	5	✓						
	6	✓						
	7							
	8	✓						
	9	✓						
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	11	✓						
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Search Notes



Application/Control No.	Applicant(s)/Patent Under Reexamination
11378080	PARKER, JEFFERY R.
Evaminar	Art Unit

Examiner Art Unit
Thomas M Sember 2885

SEARCHED				
Class	Subclass	Date	Examiner	

SEARCH NOTES		
Search Notes	Date	Examiner
Updated search	05/01/08	/TS/

U.S. Patent and Trademark Office Part of Paper No.: 20080501

EAST Search History

Ref#	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S23	4	film.clm. and deformities.clm. and parker.in. and overlay.clm.	US- PGPUB; USPAT	OR	OFF	2008/02/18 16:44
S24	18	film.clm. and deformities.clm. and parker.in. and overlying. clm.	US- PGPUB; USPAT	OR	OFF	2008/02/18 16:44
S25	37	(sheet.clm. or film.clm.) and deformities.clm. and (parker.in. or miller.in. or hough.in. or mccollum.in. or ezell.in.) and panel.clm.	US- PGPUB; USPAT	OR	OFF	2008/02/18 17:47
S26	5	(sheet.clm. or film.clm.) and deformities.clm. and (coghlan. in.) and panel. clm.	US- PGPUB; USPAT	OR	OFF	2008/02/18 17:51
S27	1	"6592238".pn.	US- PGPUB; USPAT	OR	OFF	2008/02/18 19:18
S28	1	"7049757".pn.	US- PGPUB; USPAT	OR	OFF	2008/02/18 19:19

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X being transmitted via the USPTO Electronic Filing System.

Date: April 16, 2008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket GLOLP0108USAE

In re PATENT application of

Jeffery R. Parker

Serial No. 11/378,080

Confirmation No. 8860

Filed March 17, 2006

For: LIGHT EMITTING PANEL ASSEMBLIES Ok to enter

Art Unit 2885

/TS/

Thomas M. Sember, Examiner

REPLY TO FINAL OFFICE ACTION OF MARCH 6, 2008

Mail Stop AF Commissioner for Patents PO Box 1450 Alexandria, Virginia 22313-1450



Sir:

In reply to the final Office Action of March 6, 2008, please amend the above-identified application as follows:

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

Remarks/Arguments begin on page 6 of this paper.

Doc code: RCEX Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (08/08)

Request for Continued Examination (RCE)

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 contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)							
Application Number	11/378,080	Filing Date	2006-03-17	Docket Number (if applicable)	GLOLP0108USAE	Art Unit	2885
First Named Inventor	Jeffery R. Parker			Examiner Name	Thomas M. Sember		
This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV							
		S	UBMISSION REC	UIRED UNDER 37	CFR 1.114		
Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).							
i -	submitted. If a fir n even if this box		•	any amendments file	d after the final Office action t	may be con	sidered as a
☐ Co	nsider the argume	nts in the A	ppeal Brief or Reply	Brief previously filed	on		
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X Enclosed							
⋉ An	nendment/Reply						
☐ Info	☐ Information Disclosure Statement (IDS)						
Affidavit(s)/ Declaration(s)							
Other							
MISCELLANEOUS							
; •	Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)						
Other							
FEES							
★ The Dire	The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 180988						
	SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED						
	Practitioner Signa	ature					
Applica	ant Signature						

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

Approved for use through 08/31/2008. OMB 0651-0031

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

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	Signature of Registered U.S. Patent Practitioner					
Signature	/Donald L. Otto/	Date (YYYY-MM-DD)	2008-08-08			
 Name	Donald L. Otto	Registration Number	22125			

This collection of information is required by 37 CFR 1.114. 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.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a
 court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement
 negotiations.
- A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a
 request involving an individual, to whom the record pertains, when the individual has requested assistance from the
 Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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.

X being transmitted via the USPTO Electronic Filing System.

Date: August 8, 2008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket GLOLP0108USAE

In re PATENT application of

Jeffery R. Parker

Serial No. 11/378,080

Confirmation No. 8860

Filed March 17, 2006

For: LIGHT EMITTING PANEL ASSEMBLIES

Art Unit 2885

Thomas M. Sember, Examiner

REPLY TO FINAL OFFICE ACTION OF MAY 8, 2008

Mail Stop AF Commissioner for Patents PO Box 1450 Alexandria, Virginia 22313-1450

Sir:

In reply to the Final Office Action of May 8, 2008, 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 9 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 panel assembly comprising at least a light emitting panel member having a light entrance surface and a light emitting surface, at least one LED light source positioned near or against the light entrance surface, and a tray or housing having a cavity or recess in which the panel member is entirely received, wherein the panel member has a pattern of light extracting deformities on or in at least one surface to cause light to be emitted from the light emitting surface of the panel member, and the tray or housing includes 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, wherein the tray or housing 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.

2 and 3 (canceled)

4 (currently amended): The assembly of claim 2 A light emitting panel assembly comprising at least a light emitting panel member having a light entrance surface and a light emitting surface, at least one LED light source positioned near or against the light entrance surface, and a tray or housing having a cavity or recess in which the panel member is entirely received, wherein the panel member has a pattern of light extracting deformities on or in at least one surface to cause light to be emitted from the light emitting surface of the panel member, and the tray or housing includes 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, wherein the tray or housing has posts, tabs or other structural features that provide a mount or structural support for at least one other part or component, and the tray or housing provides structural support to the panel member.

5 (original): The assembly of claim 4 wherein the other part or component is a liquid crystal display.

6 (original): The assembly of claim 4 wherein the other part or component is a printed circuit.

7 (canceled)

8 (previously presented): The assembly of claim 1 wherein the tray or housing includes a bottom wall that acts as a back reflector for the panel member.

9 (previously presented): The assembly of claim 1 wherein the tray or housing provides a support for supporting and/or positioning a film near the panel member.

10 (canceled)

11 (previously presented): The assembly of claim 9 wherein the film is at least one of a diffuser and a brightness enhancing film.

12 (canceled)

13 (original): The assembly of claim 1 further comprising a film positioned near the light emitting surface of the panel member for changing the output ray angle distribution of the emitted light to fit a particular application.

14 (canceled)

15 (original): The assembly of claim 1 wherein the light entrance surface is faceted to alter the light output distribution of the LED as the light enters the panel member.

16 (currently amended): The assembly of claim 1 further comprising A light emitting panel assembly comprising at least a light emitting panel member having a light entrance surface and a light emitting surface, at least one LED light source positioned near or against the light entrance surface, and a tray or housing having a cavity or recess in which the panel member is entirely received, wherein the panel member has a pattern of light extracting deformities on or in at least one surface to cause light to be emitted from the light emitting surface of the panel member, and the tray or housing includes 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, and an additional component overlaying the panel member, the panel member having at least one of a tab, hole, cavity, or protrusion that positions at least-one of the tray or housing the additional component relative to the panel member.

17 (currently amended): The assembly of claim 16 wherein the tray <u>or housing</u> includes at least one of a recess or cavity for positioning the panel member entirely within the recess or cavity.

18 (currently amended): The assembly of claim-16 A light emitting panel assembly comprising at least a light emitting panel member having a light entrance surface and a light emitting surface, at least one LED light source positioned near or against the light entrance surface, and a tray or housing having a cavity or recess in which the panel member is entirely received, wherein the panel member has a pattern of light extracting deformities on or in at least one surface to cause light to be emitted from the light emitting surface of the panel member, and the tray or housing includes 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, and an additional component overlying the panel member, the panel member having at least one of a tab, hole, cavity or protrusion that positions the additional component relative to the panel member, wherein the at least one of a tab, hole, cavity, or protrusion holds the additional component away from the panel member to create an air gap between the panel member and the additional component.

- 19 (previously presented): The assembly of claim 18 wherein the protrusion is molded into the panel member and extends outward therefrom.
- 20 (previously presented): The assembly of claim 19 wherein the protrusion comprises a post extending outward from the panel member.
- 21 (previously presented): The assembly of claim 16 wherein the additional component is a display panel.
- 22 (previously presented): The assembly of claim 16 wherein the additional component is a film or substrate.
- 23 (currently amended): The assembly of claim 46 18 wherein the light source is positioned relative to the panel member by the at least one of a tab, hole, cavity, or protrusion.
- 24 (previously presented): The assembly of claim 23 wherein the light source has a tab and the panel member has a recess to receive the tab of the light source.
- 25 (new): The assembly of claim 4 wherein the film is at least one of a diffuser and a brightness enhancing film.

26 (new): The assembly of claim 4 further comprising a film positioned near the light emitting surface of the panel member for changing the output ray angle distribution of the emitted light to fit a particular application.

27 (new): The assembly of claim 4 wherein the light entrance surface is faceted to alter the light output distribution of the LED as the light enters the panel member.

28 (new): The assembly of claim 18 wherein the tray includes at least one of a recess or cavity for positioning the panel member entirely within the recess or cavity.

29 (new): The assembly of claim 18 wherein the additional component is a display panel.

30 (new): The assembly of claim 19 wherein the additional component is a film or substrate.

REMARKS/ARGUMENTS

Claims 1, 4-6, 8, 9, 11, 13 and 15-30 are pending in the application, claims 1, 4, 16 and 18 being independent. Claims 1, 4, 16, 17 and 18 have been amended. Claims 25-30 are newly added. Claims 2, 3, 7, 10, 12 and 14 have been canceled.

Since the Examiner made the previous Office Action final, this reply is being filed along with a Request for Continued Examination (RCE). Accordingly, further and favorable consideration of all of the pending claims is respectfully requested in view of the foregoing amendments and following remarks.

Claims 1, 4, 6, 8, 9, 11, 16-21, 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakuma et al (US Patent 5,184,888).

The Examiner refers to engaging projections 42 of Sakuma (column 5, lines 29-31, Figs. 7, 8) as posts or tabs, and white reflective paper 45 (column 5, lines 45-49, Fig. 7) as a reflective tray. While paper 45 is reflective, it does not provide structural support in the sense of a tray or housing as recited in claims 1 and 4 when the light conducting plate 39 of Sakuma is held in place by a decorative panel 33 which is made out of a synthetic resin (column 4, lines 67, 68, Fig. 7).

Moreover, engaging projections 42 of Sakuma are attached to the light conducting plate 39, not to the reflective paper 45. Accordingly, engaging projections 42 do not meet the limitations of the tray or housing having posts, tabs, or other structural features as further recited in claims 1 and 4.

Furthermore, the plate-like projecting portion 40 of the light conducting plate 39 of Sakuma fits snugly into the opening 35 in the decorative panel 33 (column 5, lines 25-27, Fig. 7), and thus there is not air gap between the light emitting panel member and an additional component as recited in claim 18.

The Examiner also refers to the engaging pawl pieces 38 of Sakuma (column 5, lines 12-15, Fig. 8) as tabs or posts. However, engaging pawl pieces 38 are attached to the decorative panel 33 and not to the light conducting plate 39. Thus they do not meet the limitations of the panel member having a tab, hole, cavity or protrusion that positions the tray or housing relative to the panel member as recited in claim 16 or that positions an additional component overlying the panel member relative to the panel member and holds the additional component away from the panel member to create an air gap between the panel member and the additional component as recited in claim 18.

Moreover, the decorative panel 33 of Sakuma is not a reflective tray as recited in claims 1 and 4 so the engaging pawl pieces do not meet the limitations of the posts, tabs or other structural features that provide a mount as further recited in claims 1 and 4.

The light conducting plate 39 of Sakuma includes a "plate-like projecting portion 40 for snugly fitting in the opening 35 in the decorative plate 33" (column 5, lines 25-27). However, since projection portion 40 projects from the light conducting panel 39, it does not meet the limitations of a structural feature as recited in claims 1 and 4. Moreover, since the projecting portion 40 of Sakuma fits snugly within the decorative panel, there is no air gap between the panel

member and an additional component as recited in claim 18. Accordingly, claims 1, 4, 16 and 18 are clearly allowable over Sakuma.

Claim 6 depends on claim 4, claims 8, 9 and 11 depend on claim 1, claims 17 and 21 depend on claim 16, and claims 19, 20, 23 and 24 depend on claim 18 and are submitted as allowable for at least the same reasons. Moreover, it is not seen wherein Sakuma discloses a protrusion that is molded into the panel member and extends outward therefrom, or wherein the protrusion comprises a post extending outward from the panel member as further recited in claims 19 and 20. Accordingly, claims 19 and 20 are submitted as allowable in their own right in addition to being dependent on claim 18.

Claims 1, 4, 8, 9, 11, 13 and 16-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murase et al (US 5,207,493). The Examiner identifies the margin reflection layers 30 of Murase (Fig. 2) as a "tab". However, this so-called tab of Murase does not provide a mount for mounting a light emitting panel assembly into a larger assembly or device as recited in claim 1 or provide a mount or structural support for at least one other part or component as recited in claim 4. Nor is the so-called tab of Murase a tab on the panel member that positions the tray or housing relative to the panel member as recited in claim 16 or that positions an additional component overlying the panel member relative to the panel member and holds the additional component away from the panel member to create an air gap between the panel member and the additional support as recited in claim 18. Accordingly, claims 1, 4, 16 and 18 are clearly allowable over Murase.

Claims 8, 9, 11 and 13 depend from claim 1, claims 17, 21 and 22 depend from claim 16, and claims 19, 20, 23 and 24 depend from claim 18 and are submitted as allowable for substantially the same reasons. Moreover, claims 19 and 20 further patentably distinguish over Murase by reciting that the protrusion of claim 18 is molded into the panel member and extends outwardly therefrom, and that the protrusion comprises a post extending outward from the panel member.

Claims 1, 4-6, 8, 9, 11, 13, 16-21, 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tada (US Patent 5,050,046) in view of Murase et al (US Patent 5,207,493).

The Examiner identifies the leads 5a and 5h of Tada (column 2, lines 37-44) as tabs or posts and reflecting frame 12 of Tada (column 2, line 68 - column 3, line 1, Figs. 1, 2) as the tray. However, the leads 5a and 5h of Tada are connected to the printed substrate 8 (column 2, lines 52-54, Fig. 1). As clearly shown in Fig. 2, the leads 5a and 5h are not from the tray or housing and do not provide a mount for mounting of the assembly into a larger assembly or device as recited in claim 1 or provide a mount or structural support for at least one other part or component as recited in claim 4. Nor are the leads 5a and 5h of Tada from the light emitting panel member for positioning the tray or housing relative to the panel member as recited in claim 16 or for positioning an additional component overlying the panel member relative to the panel member and holding the additional component away from the panel member to create an air gap between the panel member and the additional component as recited in claim 18.

Accordingly, claims 1, 4, 16 and 18 are submitted as clearly allowable over Tada in view of Murase et al which was merely relied on for the teaching of a light panel having light extracting deformities.

Claims 8, 9, 11 and 13 depend on claim 1, claims 5 and 6 depend on claim 4, claims 17, 21 and 22 depend on claim 16 and claims 19, 20, 23 and 24 depend on claim 18 and are submitted as allowable for substantially the same reasons. Moreover, claims 5 and 6 further patentably distinguish over the cited references by reciting that the other part or component of claim 4 is a liquid crystal display and printed circuit, respectively. Also claims 19 and 20 further patentably distinguish over the cited references by reciting that the protrusion is molded into the panel member and extends outwardly therefrom, and comprises a post extending outward from the panel member.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakuma et al '888 or Murase et al '493 or Tada '046 and further in view of Li et al (US Patent 5,434,754). According to the Examiner, it would have been obvious to make the light panel entrance surface of any one of Sakuma, Murase or Tada with facets as taught by Li et al in order to efficiently transmit and alter light entering the light panels of any one of the primary references. However, the reflective facets 28 of Li et al are on the rear surface 32 of the emitter section 24 and redirect the light outward through the front face 30 of the emitter sections as a light beam (column 2, lines 50-58). They are not facets on the light entrance surface of a light emitting panel member to alter the light output distribution of an LED positioned near or against the light entrance surface as the light enters the

panel member as recited in claim 15. Accordingly, claim 15 is submitted as allowable in its own right in addition to being dependent on claim 1.

New claims 25-27 depend on claim 4 and new claims 28-30 depend on claim 18 and are submitted as allowable for substantially the same reasons.

Moreover, claim 27 further patentably distinguishes over the cited references by reciting that the light entrance surface is faceted to alter the light output distribution of the LED as the light enters the panel member, similar to claim 15.

For the foregoing reasons, this application is now believed to be in condition for final allowance of all of the pending claims 1, 4-6, 8, 9, 11, 13 and 15-30, 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 under Docket GLOLP0108USAE.

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, LLP

Βv

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Electronic Patent Application Fee Transmittal					
Application Number:	11	378080			
Filing Date:	17	-Mar-2006			
Title of Invention:	Light emitting panel assemblies				
First Named Inventor/Applicant Name:	Jeffery R. Parker				
Filer:		onald L. Otto/Jeani	ne Murphy		
Attorney Docket Number: GLOLP0108USAE					
Filed as Large Entity					
Utility Filing Fees					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Pages:					
Claims:					
Claims in excess of 20		1202	4	50	200
Independent claims in excess of 3		1201	1	210	210
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Request for continued examination	1801	1	810	810
Total in USD (\$)			1220	

Electronic Acknowledgement Receipt		
EFS ID:	3753827	
Application Number:	11378080	
International Application Number:		
Confirmation Number:	8860	
Title of Invention:	Light emitting panel assemblies	
First Named Inventor/Applicant Name:	Jeffery R. Parker	
Customer Number:	23908	
Filer:	Donald L. Otto/Jeanne Murphy	
Filer Authorized By:	Donald L. Otto	
Attorney Docket Number:	GLOLP0108USAE	
Receipt Date:	08-AUG-2008	
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Time Stamp:	16:33:25	
Application Type:	Utility under 35 USC 111(a)	

Payment information:

Submitted with Payment	yes
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Payment was successfully received in RAM	\$1220
RAM confirmation Number	1745
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File Listing:

Document	Document Description	File Name	File Size(Bytes)	Multi	Pages
Number	Document Description	File Name	/Message Digest	Part /.zip	(if appl.)

1	Request for Continued Examination (RCE)	sb0030e_fill.pdf	709524	no	3
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	Claims	2		8	
	Applicant Arguments/Remarks	9		14	
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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/06 (07-06)

Approved for use through 1/31/2007. OMB 0651-0032 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. Application or Docket Number PATENT APPLICATION FEE DETERMINATION RECORD Filing Date 03/17/2006 11/378,080 ___ To be Mailed Substitute for Form PTO-875 APPLICATION AS FILED - PART I OTHER THAN (Column 1) (Column 2) SMALL ENTITY OR SMALL ENTITY NUMBER FILED RATE (\$) FEE (\$) FOR NUMBER EXTRA RATE (\$) FEE (\$) ☐ BASIC FEE N/A N/A N/A N/A SEARCH FEE N/A N/A N/A N/A (37 CFR 1.16(k), (i), or (m)) **EXAMINATION FEE** N/A N/A N/A N/A (37 CFR 1.16(o), (p), or (q) TOTAL CLAIMS OR minus 20 = X \$ X \$ (37 CFR 1.16(i)) INDEPENDENT CLAIMS X \$ X \$ minus 3 = (37 CFR 1.16(h)) If the specification and drawings exceed 100 sheets of paper, the application size fee due ☐ APPLICATION SIZE FEE is \$250 (\$125 for small entity) for each (37 CFR 1.16(s)) 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)) TOTAL * If the difference in column 1 is less than zero, enter "0" in column 2. TOTAL APPLICATION AS AMENDED - PART II OTHER THAN SMALL ENTITY OR SMALL ENTITY (Column 1) (Column 2) (Column 3) CLAIMS **HIGHEST** REMAINING PRESENT ADDITIONAL ADDITIONAL 08/08/2008 RATE (\$) RATE (\$) PREVIOUSLY FEE (\$) FEE (\$) **EXTRA** ENDMEN. **AMENDMENT** PAID FOR Total (37 CFR ** 20 * 24 Minus = 4 OR X \$50= 200 X \$ 630 ***3 3 * 6 OR Minus X \$ X \$210= ₹ Application Size Fee (37 CFR 1.16(s)) FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) OR TOTAL TOTAL 830 ADD'L OR ADD'L FEE (Column 1) (Column 2) (Column 3) HIGHEST ADDITIONAL REMAINING PRESENT ADDITIONAL NUMBER RATE (\$) RATE (\$) PREVIOUSLY FEE (\$) **AFTER EXTRA** FEE (\$) AMENDMENT Total (37 CFR Minus X \$ OR AMENDMEN *** X \$ OR X \$ Application Size Fee (37 CFR 1.16(s)) OR FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) TOTAL TOTAL ADD'L OR ADD'L **FFF** * If the entry in column 1 is less than the entry in column 2, write "0" in column 3. Legal Instrument Examiner: ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". /MARCUS PRIDGEN/

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

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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.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

23908

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08/22/2008

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

SEMBER, THOMAS M

ART UNIT PAPER NUMBER

2885

DATE MAILED: 08/22/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/378,080	03/17/2006	Jeffery R. Parker	GLOLP0108USAE	8860

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	11/24/2008

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:

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

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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.

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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.

Page 1 of 3

PART B - FEE(S) TRANSMITTAL

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CLEVELAND,	OH 44115					(Depositor's name)
						(Signature)
			L			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/378,080 TITLE OF INVENTION	03/17/2006 : LIGHT EMITTING PA	ANEL ASSEMBLIES	Jeffery R. Parker		GLOLP0108USAE	8860
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSUE	E FEE TOTAL FEE(S) DU	E DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/24/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	7		
SEMBER, T	HOMAS M	2885	362-612000	_		
"Fee Address" ind PTO/SB/47; Rev 03-C Number is required. 3. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form led. Use of a Customer A TO BE PRINTED ON	registered attorney of 2 registered patent a listed, no name will THE PATENT (print or	gle firm (having as a r agent) and the nam torneys or agents. If see printed. ype) patent. If an assign n assignment.	es of up to no name is 3ee is identified below, the	document has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🗖 Co	orporation or other private g	roup entity Government
4a. The following fee(s): ☐ Issue Fee ☐ Publication Fee (N ☐ Advance Order - 3	No small entity discount p		A check is enclosed Payment by credit of The Director is here	l. ard. Form PTO-2038 by authorized to char	is attached. ge the required fee(s), any der(enclose	leficiency, or credit any
5. Change in Entity Sta	tus (from status indicated s SMALL ENTITY statu		□ h Amuliaantia na l	on con alaimina SMAI	LL ENTITY status. See 37 (CED 1.27(~)(2)
**						the assignee or other party in
Authorized Signature				Date		
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Alexandria, Virginia 223	15-1450.				he public which is to file (an minutes to complete, includi mments on the amount of t Trademark Office, U.S. De S. SEND TO: Commissioned displays a valid OMB contro	nd by the USPTO to process) ing gathering, preparing, and ime you require to complete partment of Commerce, P.O. r for Patents, P.O. Box 1450, ol number.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/378,080	03/17/2006	Jeffery R. Parker	GLOLP0108USAE	8860
23908 75	90 08/22/2008		EXAM	INER
RENNER OTTO BOISSELLE & SKLAR, LLP			SEMBER, T	HOMAS M
1621 EUCLID AV			ART UNIT	PAPER NUMBER
NINETEENTH FL CLEVELAND, OF			2885	
CLEVELAND, OII 44113			DATE MAILED: 08/22/200	8

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 103 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 103 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 (571)-272-4200.

	Application No.	Applicant(s)	
	11/378,080	PARKER, JEFFERY R	,
Notice of Allowability	Examiner	Art Unit	•
	Thomas M. Sember	2885	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due cou	ırse. THIS
1. X This communication is responsive to the amendment filed	<u>on 08/08/08</u> .		
2. The allowed claim(s) is/are <u>1,4-6,8,9,11,13 and 15-30</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. been received in Applicatio	n No	ı from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requir	ements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			ICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the second of the paper No./Mail Date of the	son's Patent Drawing Review . s Amendment / Comment or .84(c)) should be written on the header according to 37 CF	in the Office action of ne drawings in the front (not the back R 1.121(d).	•
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT) the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview St Paper No./ 7. ☐ Examiner's	formal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowa	nce

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06) Application/Control Number: 11/378,080 Page 2

Art Unit: 2885

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/response filed on 08/08/08.

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."

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: 11/378,080 Page 3

Art Unit: 2885

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

Issue Classification	Application/Control No. 11378080	Applicant(s)/Patent Under Reexamination PARKER, JEFFERY R.
	Examiner Thomas M Sember	Art Unit 2885

	ORIGINAL						INTERNATIONAL CLASSIFICATION							
	CLASS		;	SUBCLASS		CLAIMED NON-CLAIME					CLAIMED			
362			612			F	2	1	V	7 / 04 (2006.01.01)				
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6	15	24	29												

NONE		Total Claims Allowed:		
(Assistant Examiner)	(Date)	24		
/Thomas M Sember/ Primary Examiner.Art Unit 2885	08/20/08	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	9	

U.S. Patent and Trademark Office Part of Paper No. 20080818

Search Notes

Application/Control No.	Applicant(s)/Patent Under Reexamination
11378080	PARKER, JEFFERY R.
Examiner	Art Unit
Thomas M Sember	2885

SEARCHED							
Class	Subclass	Date	Examiner				

SEARCH NOTES		
Search Notes	Date	Examiner
Updated search	08/20/08	/TS/

INTERFERENCE SEARCH							
Class	Subclass	Date	Examiner				
362	as above	08/20/08	/TS/				
	Did broadest claim search on PGPUB						



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

BIB DATA SHEET

CONFIRMATION NO. 8860

SERIAL NUME	BER	FILING OF DAT			CLASS	GROUP ART	UNIT	ATTO	DRNEY DOCKET NO.	
11/378,080		03/17/2			362	2885		GL	OLP0108USAE	
		RUL	E							
	APPLICANTS Jeffery R. Parker, Richfield, OH;									
This applic whic whic whic	** CONTINUING DATA **********************************									
** FOREIGN AP ** IF REQUIRED 04/07/200), FOR									
Foreign Priority claimed		Yes No	☐ Met af Allowa	ter	STATE OR COUNTRY	SHEETS DRAWINGS	TOT.		INDEPENDENT CLAIMS	
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TITLE										
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BIB (Rev. 05/07).

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	"5184888".pn. and (film or layer\$3)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 16:16
L2	0	"5184888".pn. and (coat\$3 or film or layer\$3)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 16:16
L4	0	"5207493".pn. and (Icd or liquid adj display)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 16:37
L5	1	"5207493".pn. and reflect\$5	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 16:39
L6	0	"5207493".pn. and (pcb or circuit adj board)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 16:40
L7	135	362/608	USPAT; USOCR; JPO	OR	OFF	2008/05/01 17:18
L8	74	362/608.ccls.	USPAT; USOCR; JPO	OR	OFF	2008/05/01 17:20
L9	0	edge adj light \$3 same (inciden\$3 or entrance) near4 (facet\$3) and "362"/\$.ccls.	USPAT; USOCR; JPO	OR	OFF	2008/05/01 17:22
L10	0	edge adj light \$3 same (inciden\$3 or entrance) same facet\$3 and "362"/\$.ccls.	USPAT; USOCR; JPO	OR	OFF	2008/05/01 17:22

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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5925	(panel or display or light adj guid\$3) same reflect\$4 same (led or diode)	US-PGPUB	OR	OFF	2008/08/20 11:02

8/20/2008 11:42:30 AM

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: 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 "FFE ADDRESS" for

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		lock 1 for any change of address)	Not Feed pape have	e: A certificate of ma (s) Transmittal. This c ers. Each additional pa e its own certificate of	iling can only be used ertificate cannot be used aper, such as an assignm mailing or transmission	for domestic mailings of the for any other accompanying ment or formal drawing, must
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CLEVELAND,	OH 44115			Jeanne Murph	у	(Depositor's name)
			7	James 7	neugher	(Signature)
			I	September 5,	2008	(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	TTORNEY DOCKET NO.	CONFIRMATION NO.
11/378,080	03/17/2006		Jeffery R. Parker		GLOLP0108USAE	8860
TITLE OF INVENTION	: LIGHT EMITTING PA	ANEL ASSEMBLIES				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FI	EE TOTAL FEE(S) DU	E DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/24/2008
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SEMBER, T	HOMAS M	2885	362-612000			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME Al PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG Solid State Please check the appropri	ondence address (or Cha 1/122) attached. cation (or "Fee Address' 2 or more recent) attach ND RESIDENCE DATA ass an assignce is identian 37 CFR 3.11. Companies Ce Opto Limita ate assignce category or are submitted:	Indication form and the control of t	British rinted on the patent): b. Payment of Fcc(s): (Plea A check is enclosed. Payment by credit car	3 registered patent at vely, e firm (having as a magent) and the names of the firm (having as a magent). If no printed. be) atent. If an assignee assignment. and STATE OR COU Virgin Isla Ind vidual L Corpo se first reapply any p	ember a 2	S Web
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NOTE: The Issue Fee and nterest as shown by the r	Publication Fee (if requeed of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a register	ed attorney or agent; or	the assignee or other party in
Authorized Signature	Chelo	K (two		Date	September 5,	2008
Typed or printed name	Donald	L. Otto		Registration No.	22,125	
submitting the completed his form and/or suggestion Box 1450, Alexandria, V Alexandria, Virginia 223	application form to the ons for reducing this buring this buring in 22313-1450. DOI 3-1450.	USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR (depending upon the indivible Chief Information Office COMPLETED FORMS TO	idual case. Any comm r, U.S. Patent and Tra) THIS ADDRESS. S.	public which is to file (ar utes to complete, includi nents on the amount of t demark Office, U.S. De END TO: Commissioner lays a valid OMB contro	nd by the USPTO to process) ing gathering, preparing, and ime you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

Electronic Patent Application Fee Transmittal						
Application Number:	11378080					
Filing Date:	17-	17-Mar-2006				
Title of Invention:	LIGHT EMITTING PANEL ASSEMBLIES					
First Named Inventor/Applicant Name:	Jeffery R. Parker					
Filer:	Donald L. Otto/Jeanne Murphy					
Attorney Docket Number:	GLOLP0108USAE					
Filed as Large Entity						
Utility under 35 USC 111(a) Filing Fees						
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)	
Basic Filing:						
Pages:						
Claims:						
Miscellaneous-Filing:						
Petition:						
Patent-Appeals-and-Interference:						
Post-Allowance-and-Post-Issuance:						
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Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)			(\$)	1740

Electronic Acknowledgement Receipt				
EFS ID:	3894496			
Application Number:	11378080			
International Application Number:				
Confirmation Number:	8860			
Title of Invention:	LIGHT EMITTING PANEL ASSEMBLIES			
First Named Inventor/Applicant Name:	Jeffery R. Parker			
Customer Number:	23908			
Filer:	Donald L. Otto/Jeanne Murphy			
Filer Authorized By:	Donald L. Otto			
Attorney Docket Number:	GLOLP0108USAE			
Receipt Date:	05-SEP-2008			
Filing Date:	17-MAR-2006			
Time Stamp:	13:53:23			
Application Type:	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	9416
Deposit Account	
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File Listing:

Document	Document Description	File Name	File Size(Bytes)/	Multi	Pages
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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

09/24/2008

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO. ISSUE DATE PATENT NO. ATTORNEY DOCKET NO. CONFIRMATION NO. 11/378.080 10/14/2008 7434974 GLOLP0108USAE

23908 7590

8860

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 103 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

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 (571)-272-4200.

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

Jeffery R. Parker, Richfield, OH;

Practitioner's Docket I	No.	GLOLPO108USAE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

Patent Number: 7,434,974

lssued: October 14, 2008
Name of Patentee: Jeffery R. Parker

Title of Invention: LIGHT EMITTING PANEL ASSEMBLIES

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

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT FOR APPLICANT'S MISTAKE (37 C.F.R. § 1.323)

٦.	it is n	oted that an error appears in this patent of a
		clerical
	X	typographical
		minor
nat	ture or	character, as more fully described below. It occurred in good faith. Correction
the	ereof do	pes not involve such changes in the patent as would constitute new matter o

would require re-examination. A certificate of correction is requested.

2. Attached hereto is PTO/SB/44 (also FORM PTO/1050) in a form suitable for printing.

NOTE: Form PTO/SB/44 (also Form PTO-1050), using the column and line number in the printed patent, should be used exclusively, regardless of the length or complexity of the subject matter. M.P.E.P. § 1485, 8th

ed., Rev. 2.

NOTE: The patent grant should be retained by the patentee. The PTO does not attach the certificate of correction to the patentee's copy of the patent. The patent grant will be returned to the patentee if submitted. M.P.E.P. § 1485, 8th ed., Rev. 2.

Request for Certificate of Correction of Patent for Applicant's Mistake (37 C.F.R. § 1.323) [14-2]
—page 1 of 3)

3. The exact page and line number where the error occurs in the application file are:

NOTE: This information should be identified in this request, however, on Form PTO-1050, only the column and line number in the printed patent should be used. M.P.E.P. § 1485, 8th Edition, Rev. 2.

Reply Under 37 CFR 1.116 filed August 8, 2008, page 7, claim 25, line 1

Application claim 25 should have been made dependent on claim 26 instead of claim 4 since there is no antecedent basis in claim 4 for "the film".

Request for Certificate of Correction of Patent for Applicant's Mistake (37 C.F.R. § 1.323) [14-2] —page 2 of 3)

Address: 1621 Euclid Avenue, 19t		
Cleveland, Ohio 44115-	-2191	
5. Please pay the fee required by 37 C.F.R.	. § 1.20(a)-\$100. 00 , as follows:	
	order in the amount of \$	
Authorization is hereby made to c To Deposit Account No. 18-0	harge the amount of \$ additional fees, payment	credit over-
▼ to Credit card as shown on the	e attached credit card information authoriza-	
WARNING: Credit card information should not be in	cluded on this form as it may become public.	
Charge any additional fees require in the manner authorized above.	ed by this paper or credit any overpayment	
A duplicate of this paper is attached.		
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	OLOMATURE OF PRACTITIONER	
Reg. No.: 22,125	SIGNATURE OF PRACTITIONER	
riog. No.:	Donald L. Otto	
Tel. No.:(216) 621-1113	(type or print name of practitioner) RENNER, OTTO, BOISSELLE & SKLAR 1621 Euclid Avenue - 19th Floor	, LLP
· · · · · · · · · · · · · · · · · · ·	TOUR TOUR	
Customer No. 23908	P.O. Address	

NOTE: The certificate of correction for applicant's mistake may be signed by the attorney of record, unlike that for PTO mistake where the patentee or an owner of an interest in the invention must make the request.

Request for Certificate of Correction of Patent for Applicant's Mistake (37 C.F.R. § 1.323) [14-2] —page 3 of 3)

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. (Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE

	CERTIFIC	CATE OF COF	RRECTION	
				Page <u>1</u> of <u>1</u>
PATENT NO. : 7,434,	974 B2			. 490 0
APPLICATION NO.: 11/378	3,080			
ISSUE DATE : Octobe	er 14, 2008			
INVENTOR(S) : Jeffery	y R. Parker			
It is certified that an is hereby corrected as s	n error appears or error hown below:	rs appear in the abo	ove-identified patent and	d that said Letters Patent
Column 9, Line 66, replace "7" with	h11			

MAILING ADDRESS OF SENDER (Please do not use customer number below):

RENNER, OTTO, BOISSELLE & SKLAR, LLP 1621 Euclid Avenue, 19th Floor Cleveland, Ohio 44115-2191

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, 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.

Electronic Patent Application Fee Transmittal						
Application Number:	11378080					
Filing Date:	17-Mar-2006					
Title of Invention:	LIGHT EMITTING PANEL ASSEMBLIES					
First Named Inventor/Applicant Name:	Jeffery R. Parker					
Filer:	Donald L. Otto/Jeanne Murphy					
Attorney Docket Number:	GLOLP0108USAE					
Filed as Large Entity						
Utility under 35 USC 111(a) Filing Fees						
Description	Fee Code Quantity Amount Sub-Total in USD(\$)					
Basic Filing:						
Pages:						
Claims:						
Miscellaneous-Filing:						
Petition:						
Patent-Appeals-and-Interference:						
Post-Allowance-and-Post-Issuance:						
Certificate of correction		1811	1	100	100	
Extension-of-Time:						

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
	Total in USD (\$) 100			100

Electronic Acknowledgement Receipt			
EFS ID:	4207138		
Application Number:	11378080		
International Application Number:			
Confirmation Number:	8860		
Title of Invention:	LIGHT EMITTING PANEL ASSEMBLIES		
First Named Inventor/Applicant Name:	Jeffery R. Parker		
Customer Number:	23908		
Filer:	Donald L. Otto/Jeanne Murphy		
Filer Authorized By:	Donald L. Otto		
Attorney Docket Number:	GLOLP0108USAE		
Receipt Date:	30-OCT-2008		
Filing Date:	17-MAR-2006		
Time Stamp:	16:21:14		
Application Type:	Utility under 35 USC 111(a)		

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File Listing:

Document	Document Description	File Name	File Size(Bytes)/	Multi	Pages
Number	Document Description	riie Name	Message Digest	Part /.zip	(if appl.)

1	1 Request for Certificate of Correction GLOLP0108USAEcertificateofco	97480	no	4	
'	nequestroi certificate of correction	rrection.pdf	40a9818c8265270fca40b263bc4e749b6d7 c0624		7
Warnings:					
Information:					
2	Fee Worksheet (PTO-06)	fee-info.pdf	29968	no	2
_	rec nonsheet (rio oo)	·	93a91f95710142385885485a11a7fe126014 164a		
Warnings:					
Information:					
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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO.

: 7,434,974 B2

Page 1 of 1

DATED

APPLICATION NO.: 11/378080

INVENTOR(S)

: October 14, 2008 : Jeffery R. Parker

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 9,

Line 66, replace "7" with --11--.

Signed and Sealed this

Second Day of December, 2008

JON W. DUDAS

Director of the United States Patent and Trademark Office



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO. Box 1450 Alexandria, virginia 22313-1450 www.usplo.gov

APPLICATION NUMBER PATENT NUMBER GROUP ART UNIT FILE WRAPPER LOCATION 11/378,080 7434974 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 PO. Box 1450 Alexandria, virginia 22313-1450 www.usplo.gov

APPLICATION NUMBER PATENT NUMBER GROUP ART UNIT FILE WRAPPER LOCATION 11/378,080 7434974 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:

Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

Alexan	ndria, VA 22313-1450		TRADEMA		
filed in the U.S. Dist	rict Court Easter	n Distric	1116 you are hereby advised that a court t of Texas, Marshall Division	action has been on the following	
☐ Trademarks or ✓	Patents. (the patent action	on involve	s 35 U.S.C. § 292.):		
DOCKET NO. 2:13-cv-00522	DATE FILED 6/28/2013	U.S. DI	STRICT COURT Eastern District of Texas, Ma	rshall Division	
PLAINTIFF			DEFENDANT		
INNOVATIVE DISPLAY	TECHNOLOGIES LLC		ACER INC., and ACER AMERIC	A CORPORATION	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK		HOLDER OF PATENT OR T	RADEMARK	
1 U.S. No. 6,755,547	6/29/2004	Inno	vative Display Technologies LLC		
2 U.S. No. 7,300,194	11/27/2007	Inno	vative Display Technologies LLC		
3 U.S. No. 7,384,177	6/10/2008	Inno	vative Display Technologies LLC		
4 U.S. No. 7,404,660	7/29/2008	Inno	vative Display Technologies LLC		
5 U.S. No. 7,434,974	10/14/2008	Inno	vative Display Technologies LLC	·	
	In the above—entitled case, the	following	patent(s)/ trademark(s) have been include	d:	
DATE INCLUDED	INCLUDED BY				
	Ame	ndment	Answer Cross Bill	☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK		HOLDER OF PATENT OR TI	RADEMARK	
1					
2					
3					
4					
5					
In the above—entitled case, the following decision has been rendered or judgement issued:					
DECISION/JUDGEMENT			,,,,,,,		
CLERK	(DV)	DEPUTY	CLERK	DATE	
CLERN	(81)	DETUTI	CLLIN	DATE	

AO 120 (Rev. 08/10) REPORT ON THE Mail Stop 8 TO: FILING OR DETERMINATION OF AN Director of the U.S. Patent and Trademark Office P.O. Box 1450 ACTION REGARDING A PATENT OR Alexandria, VA 22313-1450 TRADEMARK 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 Eastern District of Texas, Marshall Division filed in the U.S. District Court on the following ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.): ☐ Trademarks or DOCKET NO. 2:13-cv-00523 DATE FILED U.S. DISTRICT COURT 6/28/2013 Eastern District of Texas, Marshall Division PLAINTIFF DEFENDANT INNOVATIVE DISPLAY TECHNOLOGIES LLC DELL, INC. DATE OF PATENT PATENT OR HOLDER OF PATENT OR TRADEMARK TRADEMARK NO. 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 ☐ Answer Cross Bill ☐ Other Pleading ☐ Amendment DATE OF PATENT PATENT OR HOLDER OF PATENT OR TRADEMARK TRADEMARK NO. OR TRADEMARK 3 4 5 In the above—entitled case, the following decision has been rendered or judgement issued: DECISION/JUDGEMENT (BY) DEPUTY CLERK CLERK DATE

Case 2:13-cv-00524 Document 4 Filed 06/28/13 Page 1 of 2 PageID #: 125

AO 120 (Rev. 08/10) REPORT ON THE Mail Stop 8 TO: Director of the U.S. Patent and Trademark Office FILING OR DETERMINATION OF AN P.O. Box 1450 **ACTION REGARDING A PATENT OR** Alexandria, VA 22313-1450 **TRADEMARK** 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 ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.): ☐ Trademarks or U.S. DISTRICT COURT DOCKET NO. DATE FILED 6/28/2013 2:13-cv-00524 Eastern District of Texas, Marshall Division **PLAINTIFF** DEFENDANT INNOVATIVE DISPLAY TECHNOLOGIES LLC **HEWLETT-PACKARD COMPANY** PATENT OR DATE OF PATENT HOLDER OF PATENT OR TRADEMARK TRADEMARK NO. OR TRADEMARK 1 U.S. No. 6,755,547 6/29/2004 Innovative Display Technologies LLC Innovative Display Technologies LLC 2 U.S. No. 7,300,194 11/27/2007 6/10/2008 Innovative Display Technologies LLC 3 U.S. No. 7,384,177 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: INCLUDED BY DATE INCLUDED ☐ Answer ☐ Cross Bill ☐ Other Pleading Amendment PATENT OR DATE OF PATENT HOLDER OF PATENT OR TRADEMARK TRADEMARK NO. OR TRADEMARK 2 3 5 In the above—entitled case, the following decision has been rendered or judgement issued: DECISION/JUDGEMENT (BY) DEPUTY CLERK CLERK DATE

Case 2:13-cv-00525 Document 4 Filed 06/28/13 Page 1 of 2 PageID #: 129

AO 120 (Rev. 08/10) REPORT ON THE Mail Stop 8 TO: Director of the U.S. Patent and Trademark Office FILING OR DETERMINATION OF AN P.O. Box 1450 ACTION REGARDING A PATENT OR Alexandria, VA 22313-1450 TRADEMARK 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 Eastern District of Texas. Marshall Division filed in the U.S. District Court on the following ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.): ☐ Trademarks or DOCKET NO. DATE FILED U.S. DISTRICT COURT 2:13-cv-00525 6/28/2013 Eastern District of Texas, Marshall Division PLAINTIFF DEFENDANT INNOVATIVE DISPLAY TECHNOLOGIES LLC HUAWEI INVESTMENT AND HOLDING CO., LTD., HUAWEI TECHNOLOGIES CO., LTD., and HUAWEI DEVICE USA INC. PATENT OR DATE OF PATENT HOLDER OF PATENT OR TRADEMARK TRADEMARK NO. OR TRADEMARK 1 U.S. No. 6,755,547 6/29/2004 Innovative Display Technologies LLC 11/27/2007 Innovative Display Technologies LLC 2 U.S. No. 7,300,194 6/10/2008 3 U.S. No. 7,384,177 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 ☐ Answer ☐ Cross Bill ☐ Other Pleading ☐ Amendment DATE OF PATENT PATENT OR HOLDER OF PATENT OR TRADEMARK TRADEMARK NO. OR TRADEMARK 3 4 5 In the above—entitled case, the following decision has been rendered or judgement issued: DECISION/JUDGEMENT

Copy 1-Upon initiation of action, mail this copy to Director Copy 3-Upon termination of action, mail this copy to Director Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

(BY) DEPUTY CLERK

DATE

CLERK

AO 120 (Rev. 08/10) REPORT ON THE Mail Stop 8 TO: Director of the U.S. Patent and Trademark Office FILING OR DETERMINATION OF AN P.O. Box 1450 ACTION REGARDING A PATENT OR Alexandria, VA 22313-1450 **TRADEMARK** 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 Eastern District of Texas, Marshall Division filed in the U.S. District Court on the following \square Patents. (\square the patent action involves 35 U.S.C. § 292.): ☐ Trademarks or DATE FILED U.S. DISTRICT COURT 2:13-cv-00526 6/28/2013 Eastern District of Texas, Marshall Division PLAINTIFF DEFENDANT INNOVATIVE DISPLAY TECHNOLOGIES LLC RESEARCH IN MOTION LIMITED, and RESEARCH IN MOTION CORPORATION PATENT OR DATE OF PATENT HOLDER OF PATENT OR TRADEMARK TRADEMARK NO. 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 10/14/2008 Innovative Display Technologies LLC 5 U.S. No. 7,434,974 In the above—entitled case, the following patent(s)/ trademark(s) have been included: INCLUDED BY DATE INCLUDED ☐ Other Pleading ☐ Amendment ☐ Answer Cross Bill DATE OF PATENT PATENT OR HOLDER OF PATENT OR TRADEMARK TRADEMARK NO. OR TRADEMARK 2 In the above—entitled case, the following decision has been rendered or judgement issued: DECISION/JUDGEMENT CLERK (BY) DEPUTY CLERK DATE

Case 2:13-cv-00527 Document 4 Filed 06/28/13 Page 1 of 2 PageID #: 126

AO 120 (Rev. 08/10) REPORT ON THE Mail Stop 8 TO: Director of the U.S. Patent and Trademark Office FILING OR DETERMINATION OF AN P.O. Box 1450 ACTION REGARDING A PATENT OR Alexandria, VA 22313-1450 **TRADEMARK** 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 Eastern District of Texas, Marshall Division filed in the U.S. District Court on the following ✓ Patents. (☐ the patent action involves 35 U.S.C. § 292.): Trademarks or U.S. DISTRICT COURT DOCKET NO. DATE FILED 2:13-cv-00527 6/28/2013 Eastern District of Texas, Marshall Division **PLAINTIFF** DEFENDANT ZTE CORPORATION, and ZTE (USA) INC. INNOVATIVE DISPLAY TECHNOLOGIES LLC PATENT OR DATE OF PATENT HOLDER OF PATENT OR TRADEMARK OR TRADEMARK TRADEMARK NO. 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: INCLUDED BY DATE INCLUDED Cross Bill ☐ Other Pleading ☐ Amendment ☐ Answer PATENT OR DATE OF PATENT HOLDER OF PATENT OR TRADEMARK TRADEMARK NO. OR TRADEMARK 3 In the above—entitled case, the following decision has been rendered or judgement issued: DECISION/JUDGEMENT CLERK (BY) DEPUTY CLERK DATE