



US00D563036S

(12) **United States Design Patent**
Miyairi et al.

(10) **Patent No.:** **US D563,036 S**

(45) **Date of Patent:** **** Feb. 26, 2008**

(54) **LIGHT EMITTING DIODE LENS**

6,676,284 B1 * 1/2004 Wynne Willson 362/555
D499,976 S * 12/2004 Neufeglise et al. D10/114

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* cited by examiner

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(**) Term: **14 Years**

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(21) Appl. No.: **29/237,429**

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(22) Filed: **Sep. 1, 2005**

(57) **CLAIM**

The ornamental design for a light emitting diode lens, as shown and described.

(30) **Foreign Application Priority Data**

Mar. 2, 2005	(JP)	.....	2005-6010
Mar. 2, 2005	(JP)	.....	2005-006011
Mar. 2, 2005	(JP)	.....	2005-6012
Mar. 2, 2005	(JP)	.....	2005-6013
Mar. 2, 2005	(JP)	.....	2005-6032
Mar. 2, 2005	(JP)	.....	2005-6033
Mar. 2, 2005	(JP)	.....	2005-6034
Mar. 2, 2005	(JP)	.....	2005-6035

DESCRIPTION

FIG. 1 is a perspective view of a light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 2 is a top view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 3 is a bottom view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 4 is a front view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 5 is a rear view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 6 is a left side view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 7 is a right side view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 8 is a perspective view of the light emitting diode lens in accordance with a second embodiment of our new design, with the showing of inner lines to indicate that the light emitting diode lens of our new design is translucent, the only difference between the second embodiment and the first embodiment being that inner components such as light emitting diodes coupled to the light emitting diode lens are translucently visible in the second embodiment;

FIG. 9 is a perspective view of a light emitting diode lens in accordance with a third embodiment of our new design;

FIG. 10 is a top view of the light emitting diode lens in accordance with the third embodiment of our new design;

(51) **LOC (8) Cl.** **26-99**

(52) **U.S. Cl.** **D26/122**

(58) **Field of Classification Search** D26/76,
D26/78, 74, 118, 121, 3, 72, 75, 77, 79, 81,
D26/85, 120, 122, 123, 124, 139, 142, 152,
D26/153; 362/145, 147, 148, 257, 290, 260,
362/317, 325, 330, 342, 364, 365

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,483,366	A	*	12/1969	Wince	.....	362/333
3,737,654	A	*	6/1973	Hawley	.....	362/311
D259,738	S	*	6/1981	Boschetti	.....	D24/210
D345,316	S	*	3/1994	Green et al.	.....	D10/114
D356,382	S	*	3/1995	Jaksich	.....	D26/75
D374,737	S	*	10/1996	Can	.....	D26/80
D401,000	S	*	11/1998	Herst	.....	D26/76
5,848,837	A	*	12/1998	Gustafson	.....	362/235
D414,580	S	*	9/1999	Herst	.....	D26/76
6,193,394	B1	*	2/2001	Herst et al.	.....	362/260

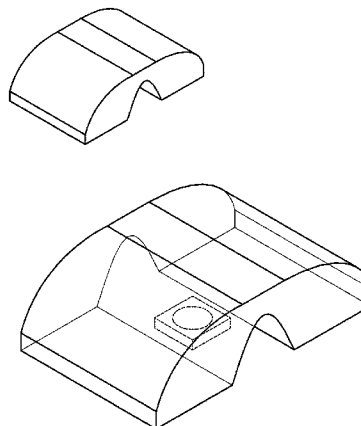
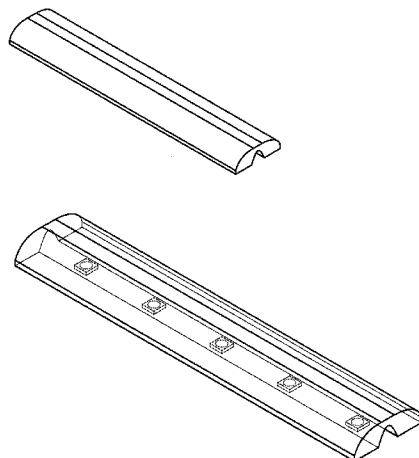


FIG. 11 is a bottom view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. 12 is a front view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. 13 is a rear view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. 14 is a left side view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. 15 is a right side view of the light emitting diode lens in accordance with the third embodiment of our new design; and,

FIG. 16 is a perspective view of the light emitting diode lens in accordance with a fourth embodiment of our new design,

with the showing of inner lines to indicate that the light emitting diode lens of our new design is translucent, the only difference between the fourth embodiment and the third embodiment being that an inner component such as a light emitting diode coupled to the light emitting diode lens is translucently visible in the fourth embodiment.

The broken line showing of environment in the Figures is for illustrative purposes only and forms no part of the claimed design. Particularly, the number of the light emitting diodes to be disposed underneath the light emitting diode lens is not limited to those shown in the Figures.

1 Claim, 8 Drawing Sheets

Figure 1

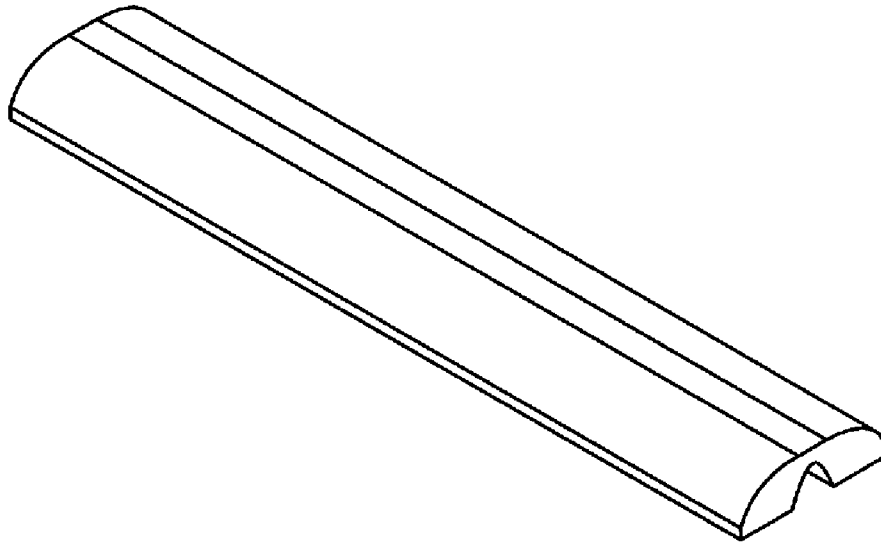


Figure 2

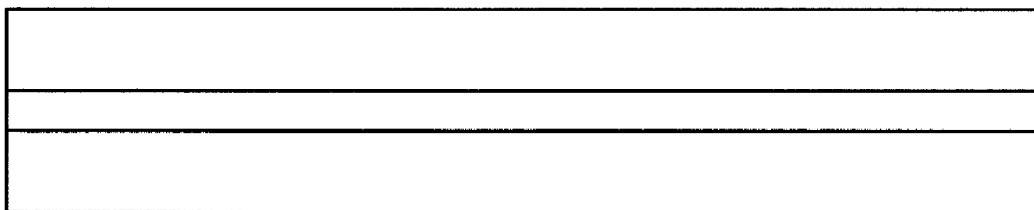


Figure 3

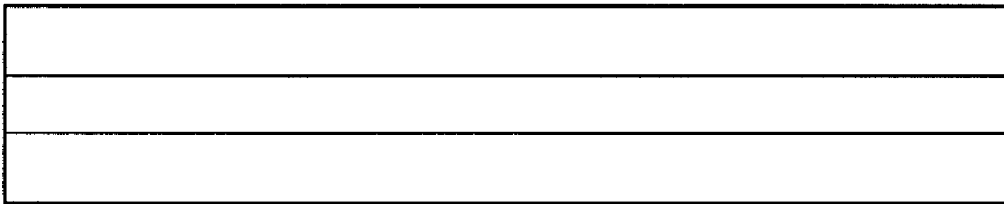


Figure 4

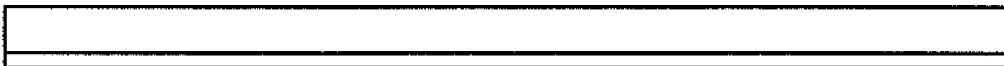


Figure 5



Figure 6



Figure 7



Figure 8

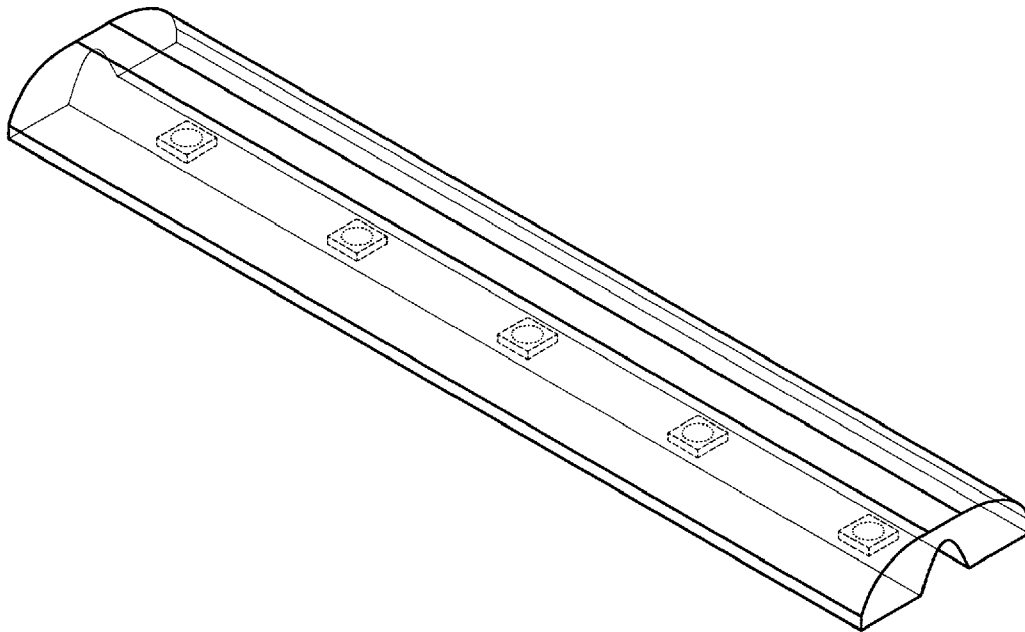


Figure 9

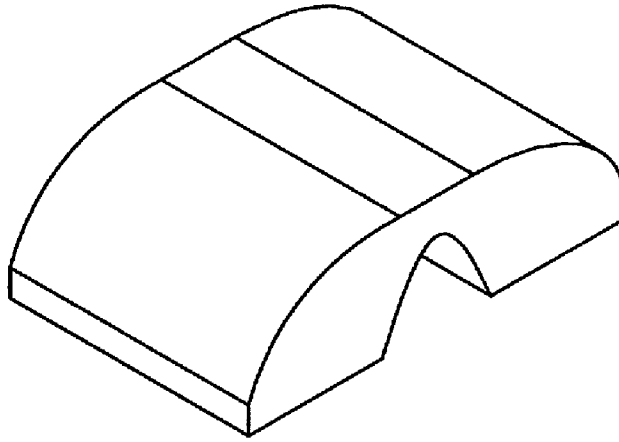


Figure 10

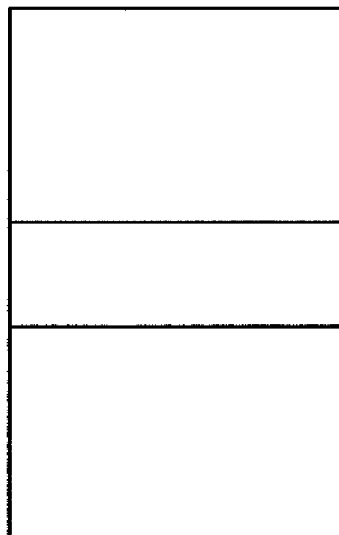


Figure 11

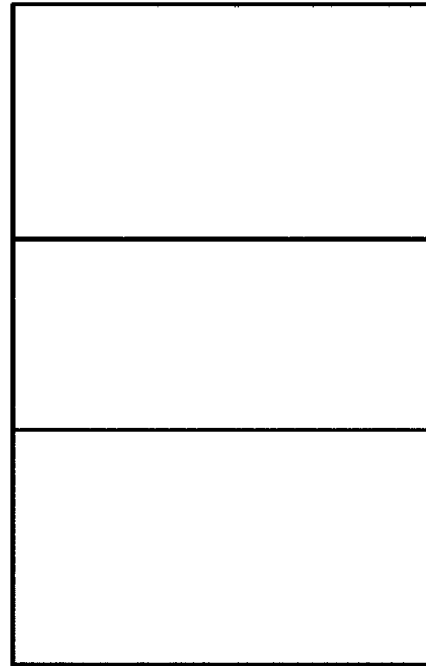


Figure 12



Figure 13



Figure 14



Figure 15



Figure 16

