

Ex. 1001



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Boomgaarden et al.

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(54) **LOW PROFILE LIGHT AND ACCESSORY KIT FOR THE SAME**

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Related U.S. Application Data
(63) Continuation-in-part of application No. 12/775,310, filed on May 6, 2010, now Pat. No. 8,201,968.
(60) Provisional application No. 61/248,665, filed on Oct. 5, 2009.

(51) **Int. Cl.**
F21V 29/00 (2006.01)
(52) **U.S. Cl.**
USPC **362/294**; 362/147; 362/148; 362/365; 362/235; 362/249.02

(58) **Field of Classification Search**
USPC 362/147, 148, 150, 404, 294, 373, 365
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,431,728 B1 *	8/2002	Fredericks et al.	362/244
6,719,446 B2 *	4/2004	Cao	362/547
2008/0037255 A1 *	2/2008	Wang	362/294

(Continued)

FOREIGN PATENT DOCUMENTS

EP	1950491 A1	7/2008
WO	2008137732 A1	11/2008

OTHER PUBLICATIONS

EP International Search Report for Application No. 10174449.8; Mail Date: Dec. 14, 2010; 8 pgs.

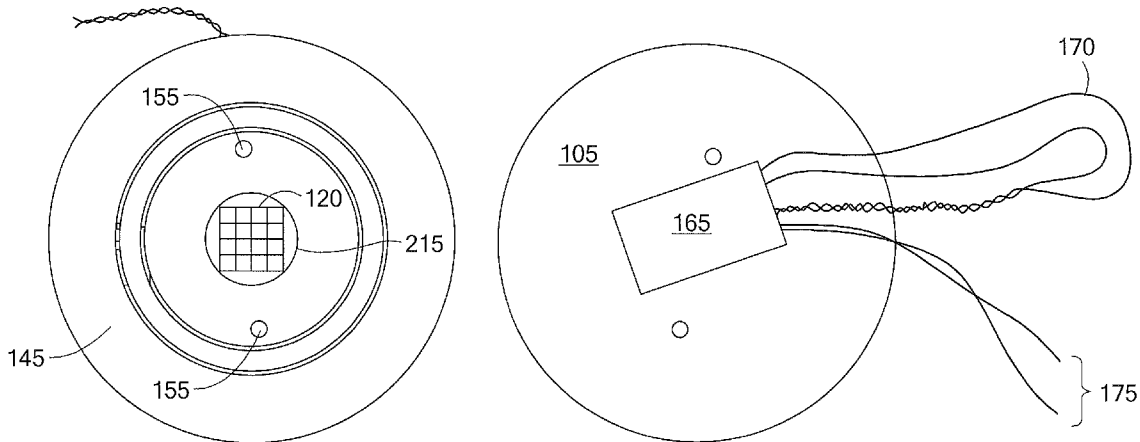
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(57) **ABSTRACT**

A luminaire includes a heat spreader; a heat sink; an LED light source; a power supply; an electrical supply line having a first end connected to the power supply, and a second end connected to a plug-in connector; and, an optic securely retained relative to the heat spreader or heat sink. An accessory kit includes a first pre-wired jumper including a pair of insulated electrical wires having a first plug-in connector electrically connected at one end and an Edison base electrically connected at the other end; and/or, a second pre-wired jumper including a pair of insulated electrical wires having a second plug-in connector electrically connected at one end and unconnected wire ends at the other end. The plug-in connector of the first pre-wired jumper and the second pre-wired jumper are each configured to electrically engage with the plug-in connector of the electrical supply line.

15 Claims, 17 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

U.S. PATENT DOCUMENTS

2008/0170398 A1 7/2008 Kim
2008/0232116 A1 9/2008 Kim
2009/0086474 A1 4/2009 Chou
2009/0141506 A1 6/2009 Lan et al.

European Office Action for Application No. 10 174 449.8. Mailed on
Apr. 8, 2013. 4 pages.

* cited by examiner

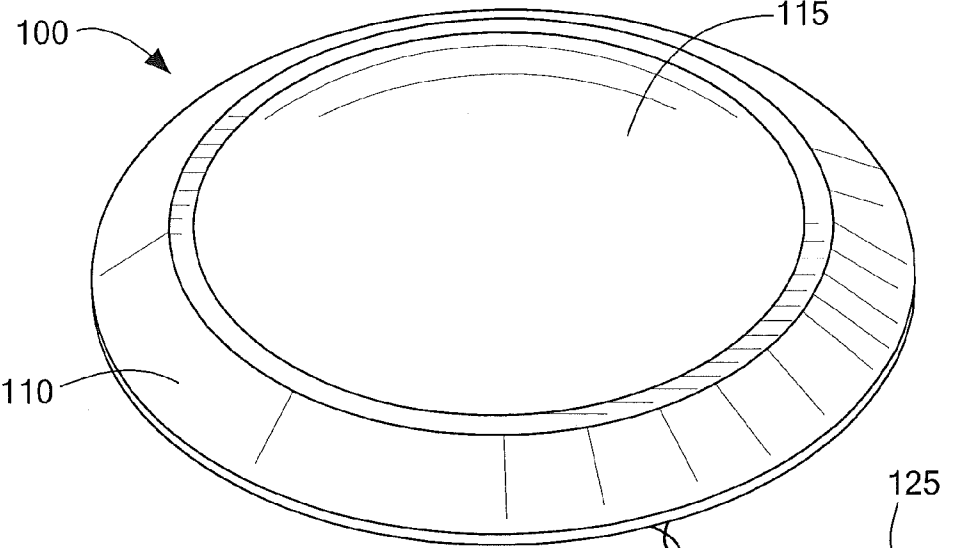


FIG. 1

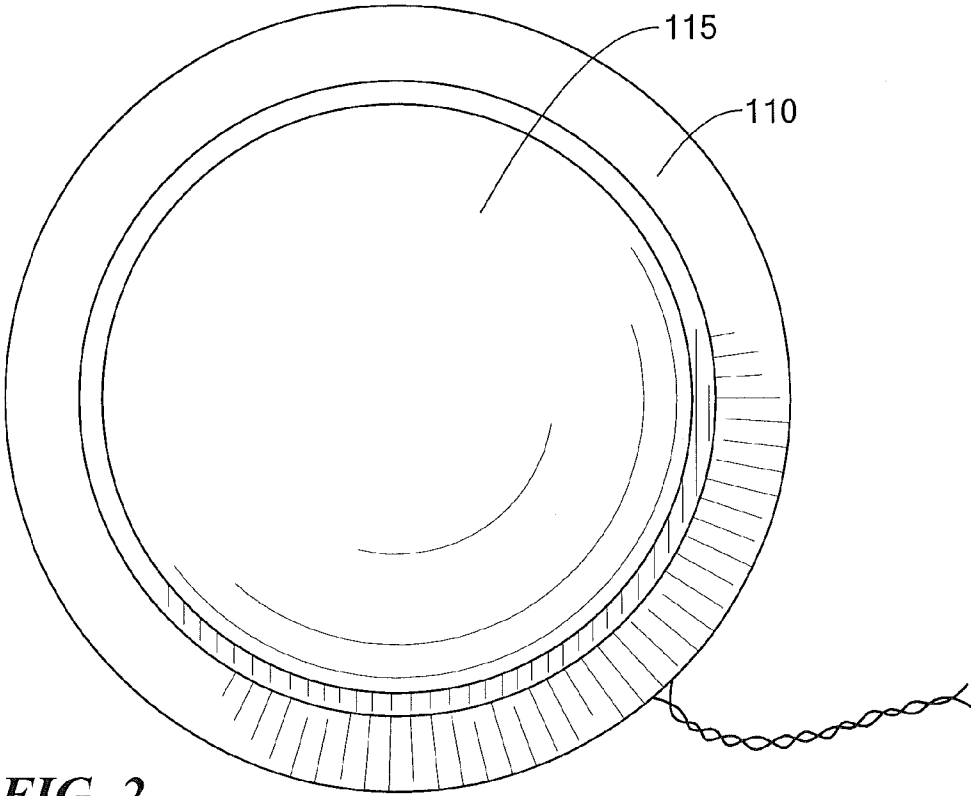


FIG. 2

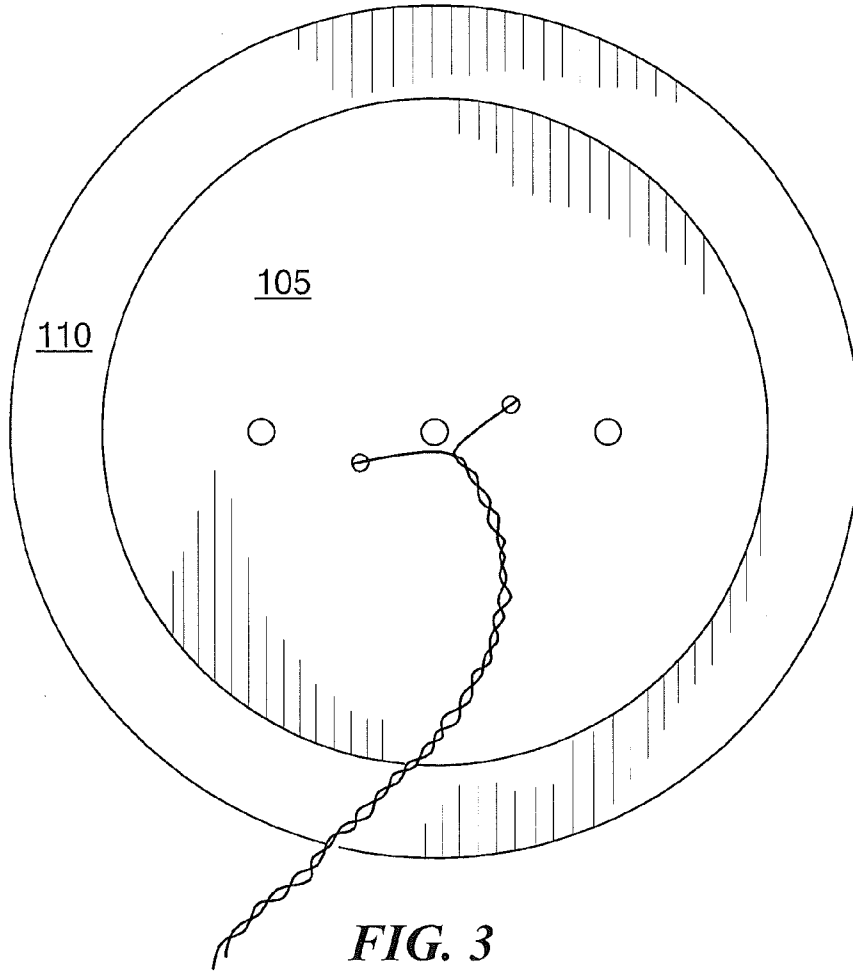


FIG. 3

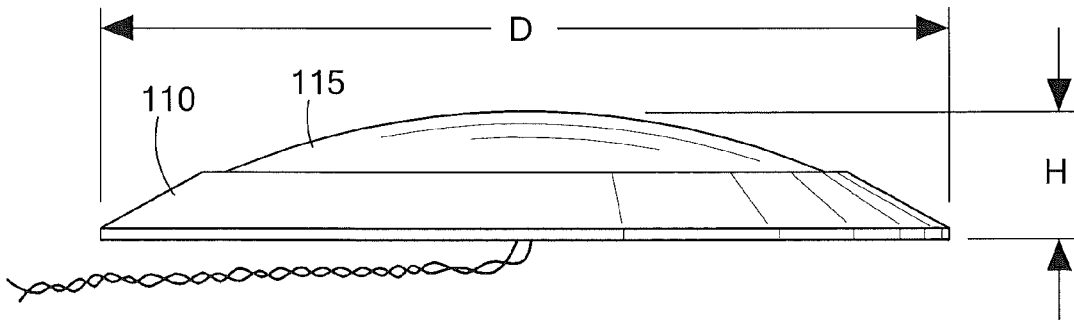


FIG. 4

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