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**Maxik et al.**

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(54) **LOW PROFILE LIGHT**

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U.S.C. 154(b) by 98 days.

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5, 2009.

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**F21V 1/00** (2006.01)  
**F21V 29/00** (2006.01)

(52) **U.S. Cl.** ..... **362/235**; 362/294; 362/147; 362/373

(58) **Field of Classification Search** ..... 362/147,  
362/148, 149, 150, 404, 294, 373, 547, 365  
See application file for complete search history.

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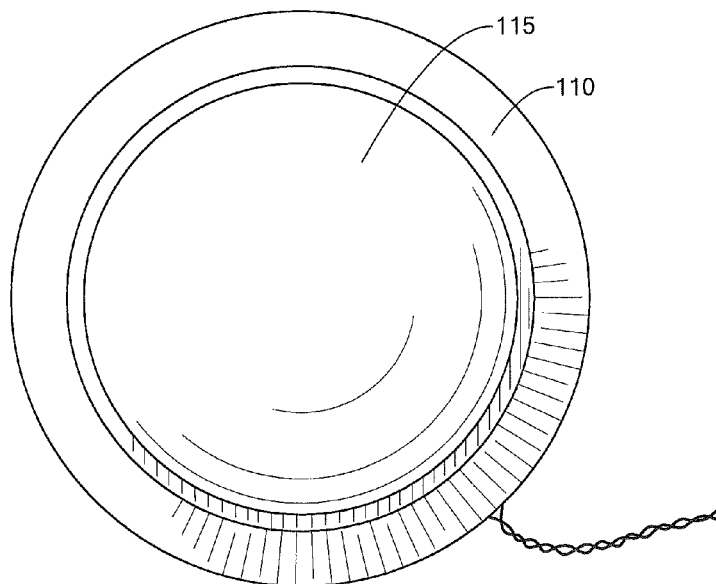
*Primary Examiner* — Ali Alavi

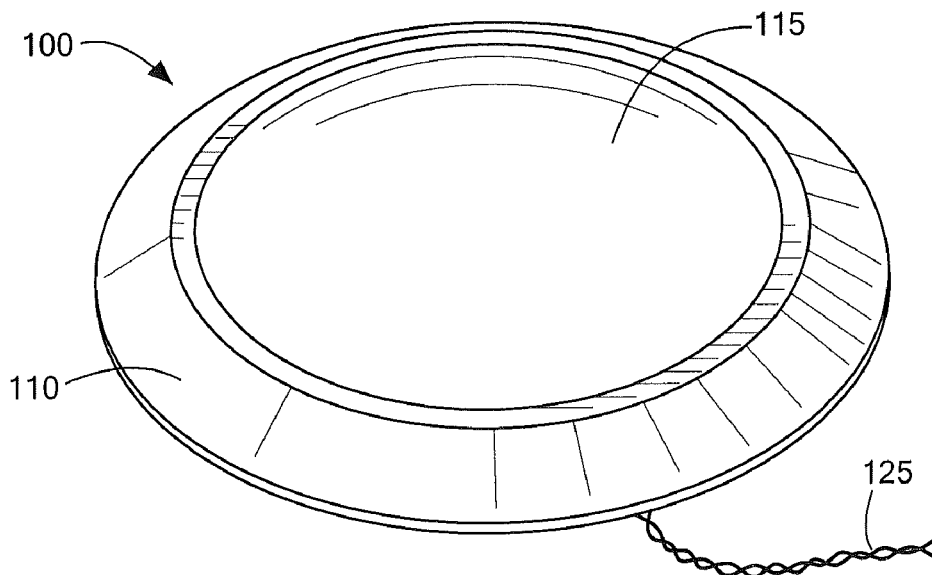
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(57) **ABSTRACT**

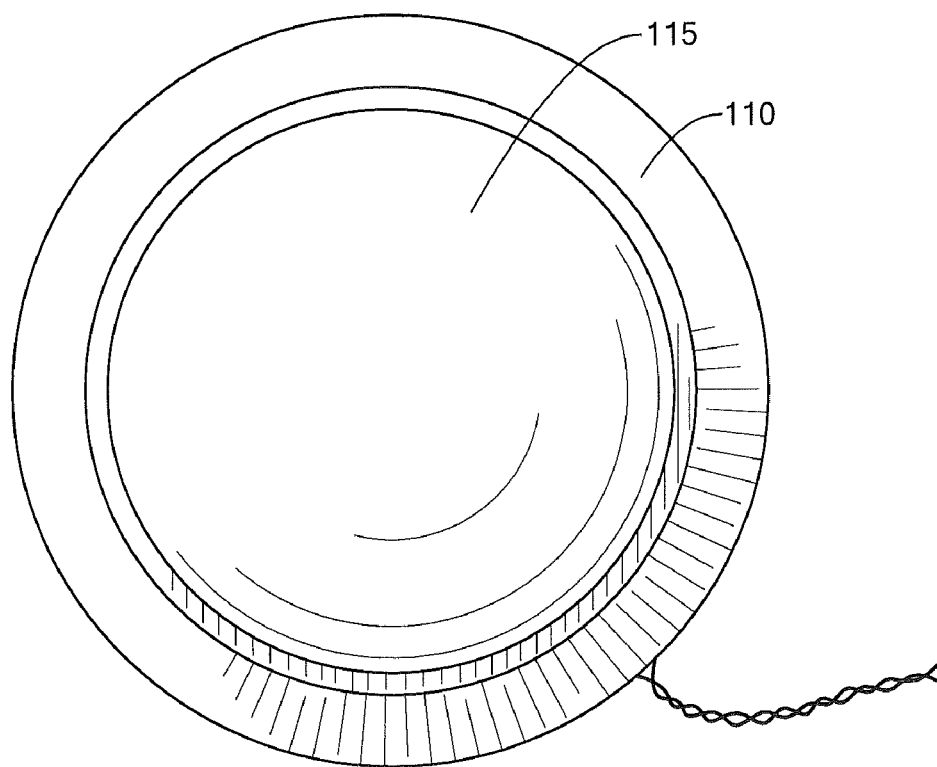
A luminaire includes a heat spreader and a heat sink thermally  
coupled to and disposed diametrically outboard of the heat  
spreader, an outer optic securely retained relative to at least  
one of the heat spreader and the heat sink, and a light source  
disposed in thermal communication with the heat spreader,  
the light source having a plurality of light emitting diodes  
(LEDs). The heat spreader, the heat sink and the outer optic,  
in combination, have an overall height H and an overall out-  
side dimension D such that the ratio of H/D is equal to or less  
than 0.25. The combination defined by the heat spreader, the  
heat sink and the outer optic, is so dimensioned as to: cover an  
opening defined by a nominally sized four-inch can light  
fixture; and, cover an opening defined by a nominally sized  
four-inch electrical junction box.

**23 Claims, 13 Drawing Sheets**





**FIG. 1**



**FIG. 2**

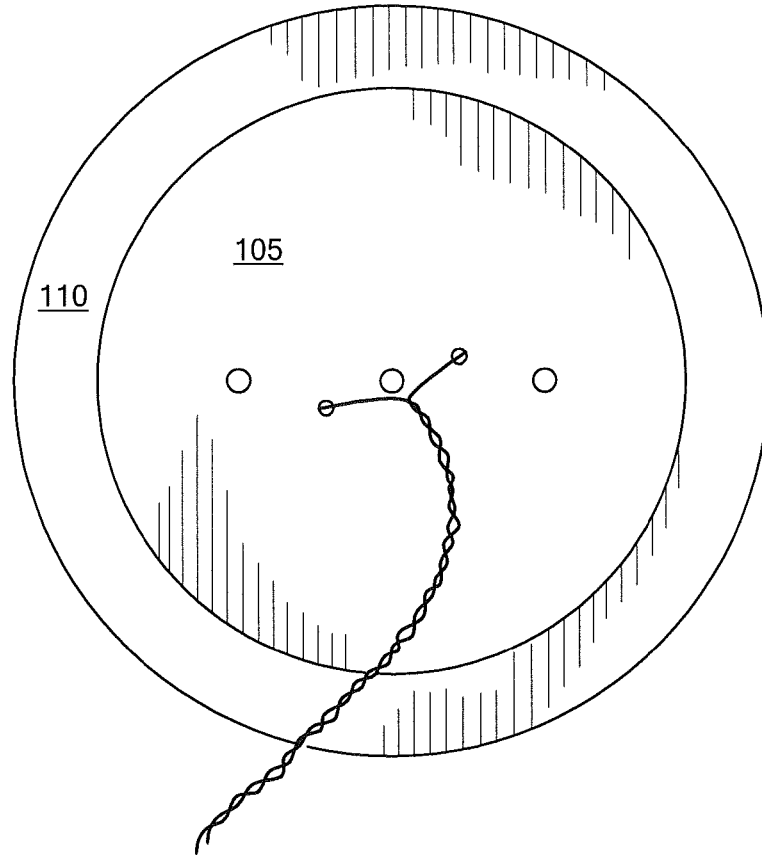


FIG. 3

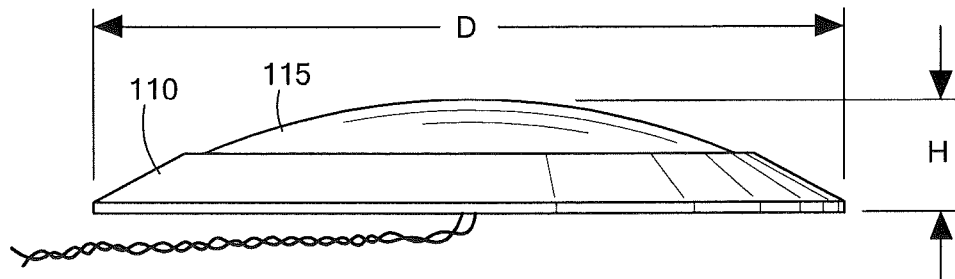


FIG. 4

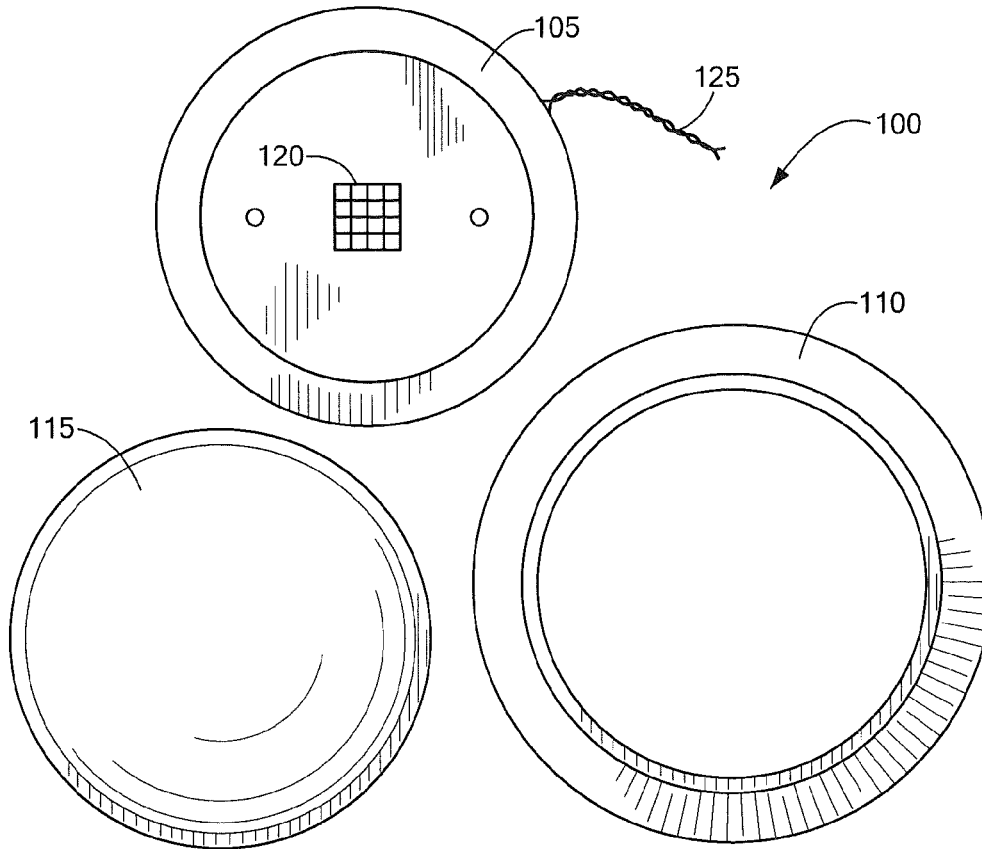


FIG. 5

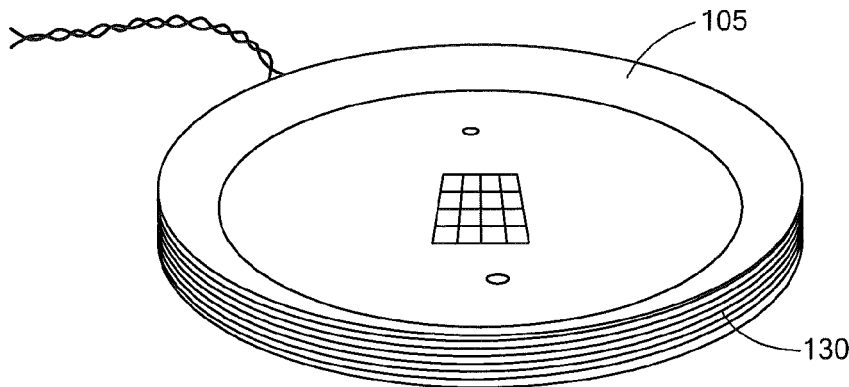
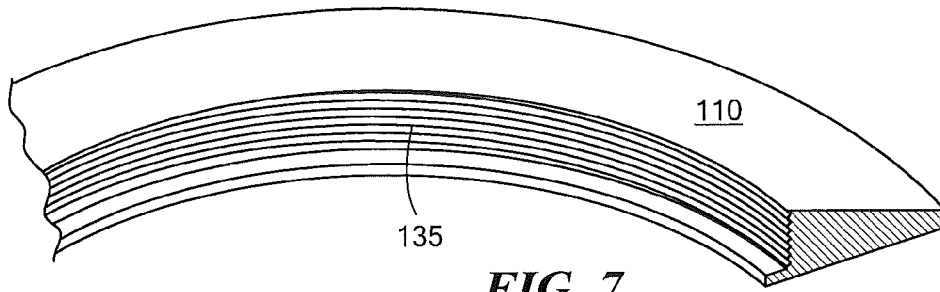
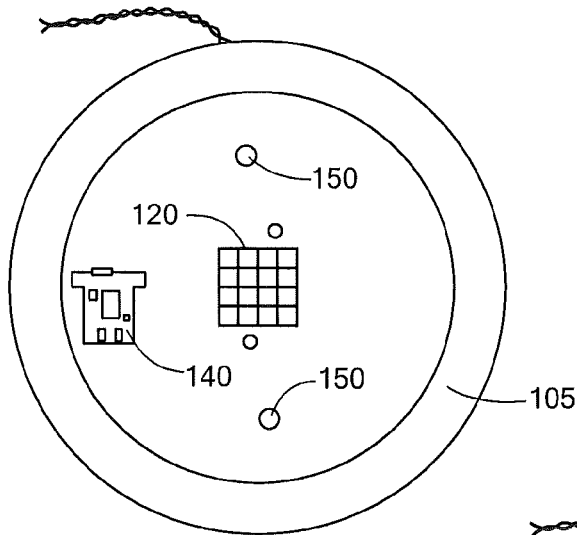


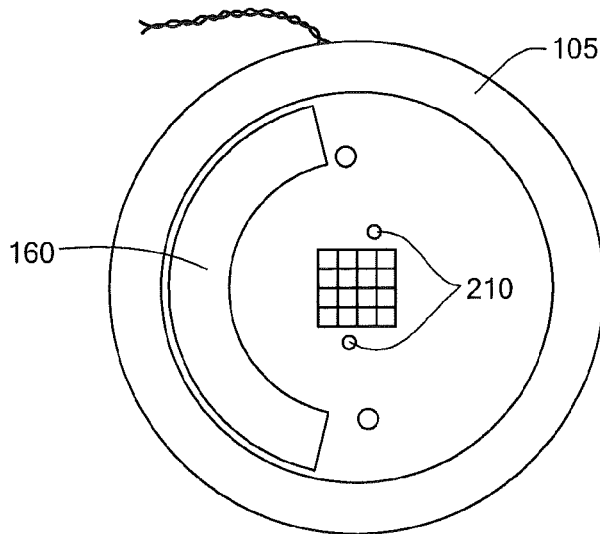
FIG. 6



**FIG. 7**



**FIG. 8**



**FIG. 9**

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