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(12) **United States Patent**
Chou

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(54) **METHOD AND APPARATUS FOR THERMALLY EFFECTIVE TRIM FOR LIGHT FIXTURE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1 day.

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(65) **Prior Publication Data**

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The New York Times, "L.E.D.'s Make for Warm Light But the Bulb Keeps Its Cool," Apr. 2004.

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Related U.S. Application Data

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(57) **ABSTRACT**

(51) **Int. Cl.**
F21V 29/00 (2006.01)

A lighting assembly comprises a light fixture. The light fixture includes a trim formed by a stamping or die casting process. The trim has thermally conductive properties and includes a flange around a perimeter of the trim. The light fixture includes a light source mounted to a central portion of a front surface of the trim, and a heatsink formed by an extrusion or die casting process. The heatsink has thermally conductive properties and is mounted to a back surface of the trim. The light fixture includes an attachment mechanism connected to the light fixture. A recessed can housing mounted to a surface may be provided. The light fixture may be mounted to the recessed can housing by inserting the heatsink into the recessed can housing and engaging the attachment mechanism to an interior portion of the recessed can housing to brace the flange against the surface.

(52) **U.S. Cl.** **362/148**; 362/147; 362/404; 362/294

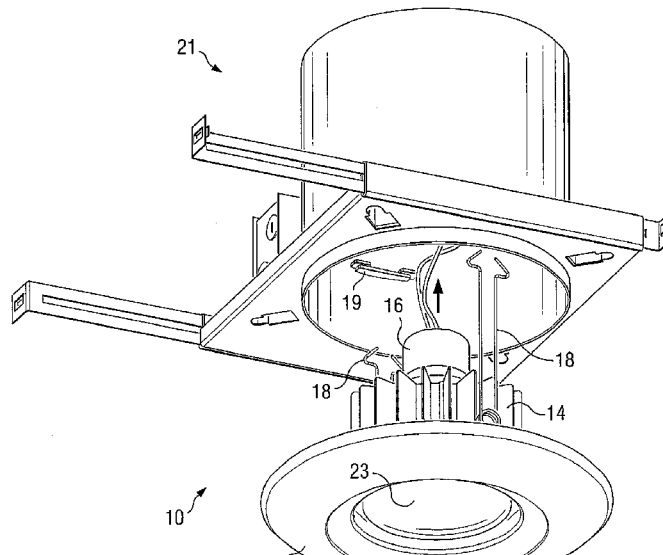
(58) **Field of Classification Search** 362/147, 362/148, 149, 150, 404, 294, 373, 547
See application file for complete search history.

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19 Claims, 11 Drawing Sheets



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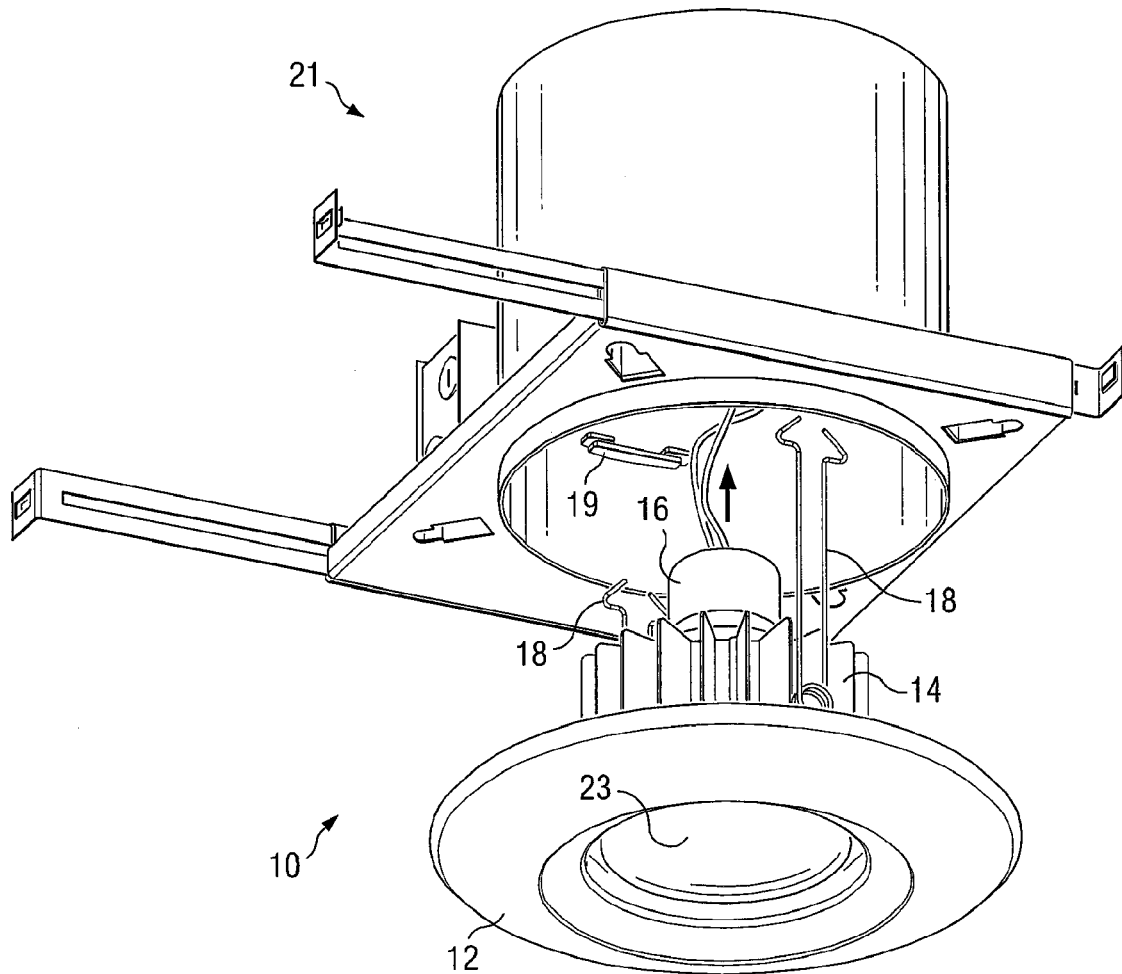
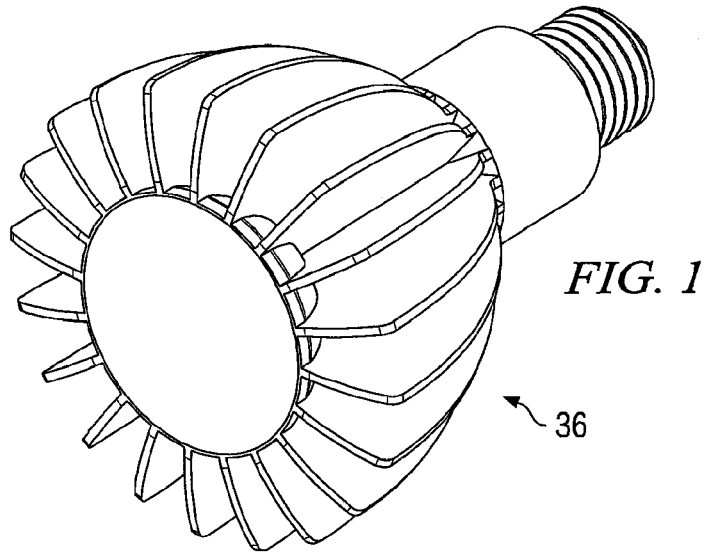


FIG. 3

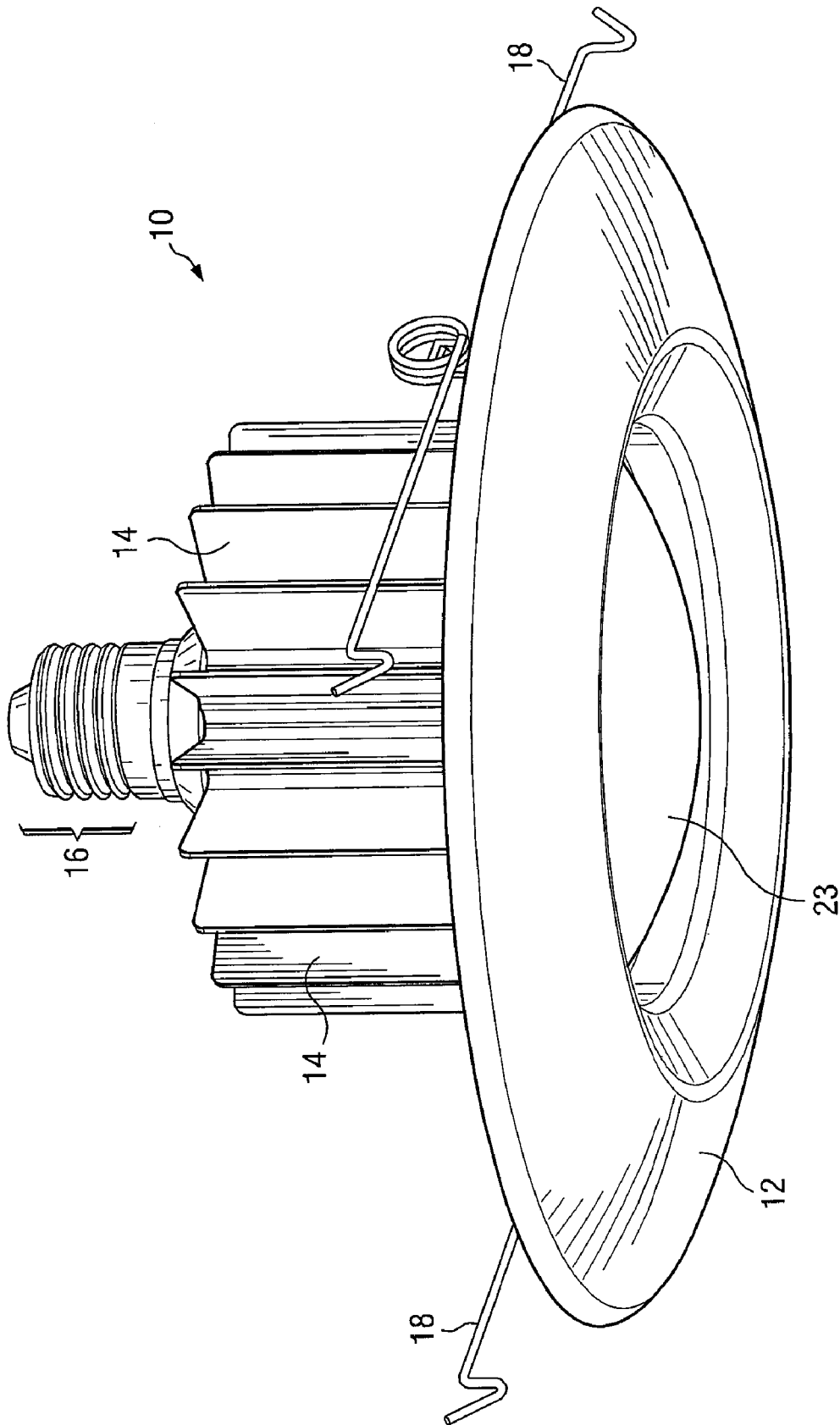


FIG. 2a

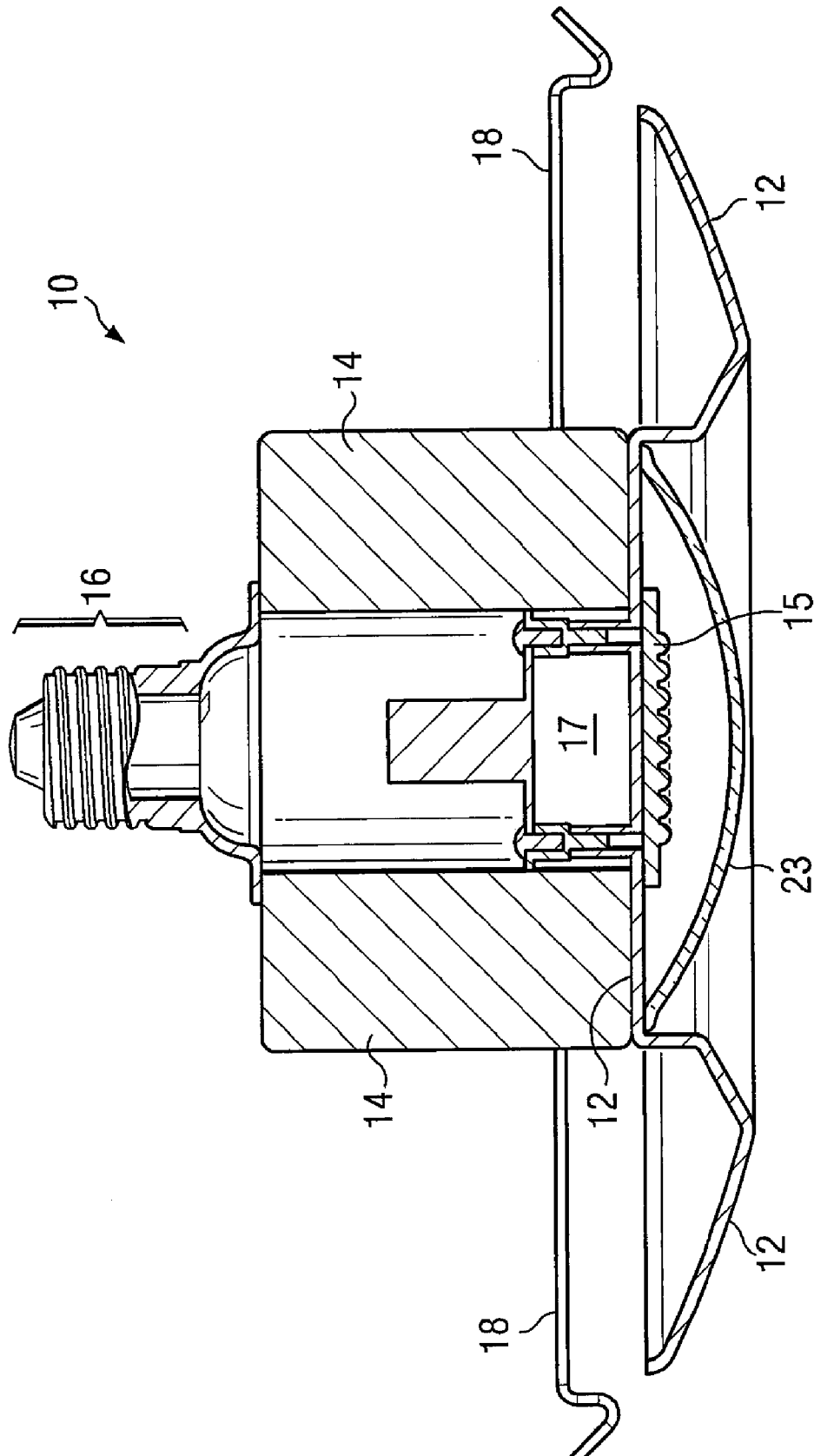


FIG. 2b

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