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**Soderman et al.**

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(54) **LIGHT FIXTURE ASSEMBLY HAVING  
IMPROVED HEAT DISSIPATION  
CAPABILITIES**

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patent is extended or adjusted under 35  
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(51) **Int. Cl.**  
**F21V 29/00** (2006.01)

(52) **U.S. Cl.** ..... **362/373; 362/249.02; 362/294**

(58) **Field of Classification Search** ..... **362/249.01,**  
**362/249.02, 145, 404, 373, 294**  
See application file for complete search history.

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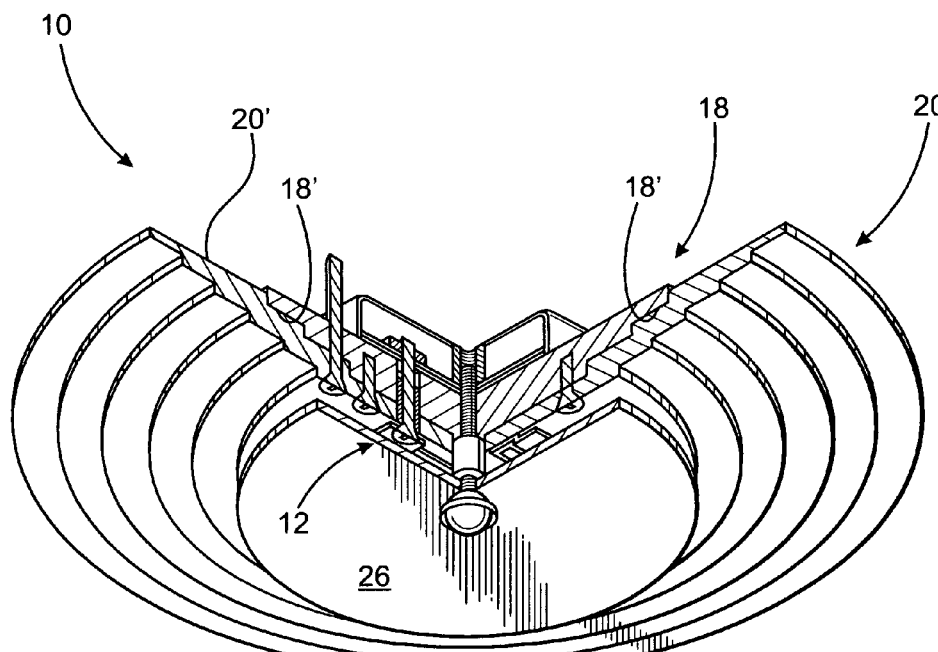
Primary Examiner — John A Ward

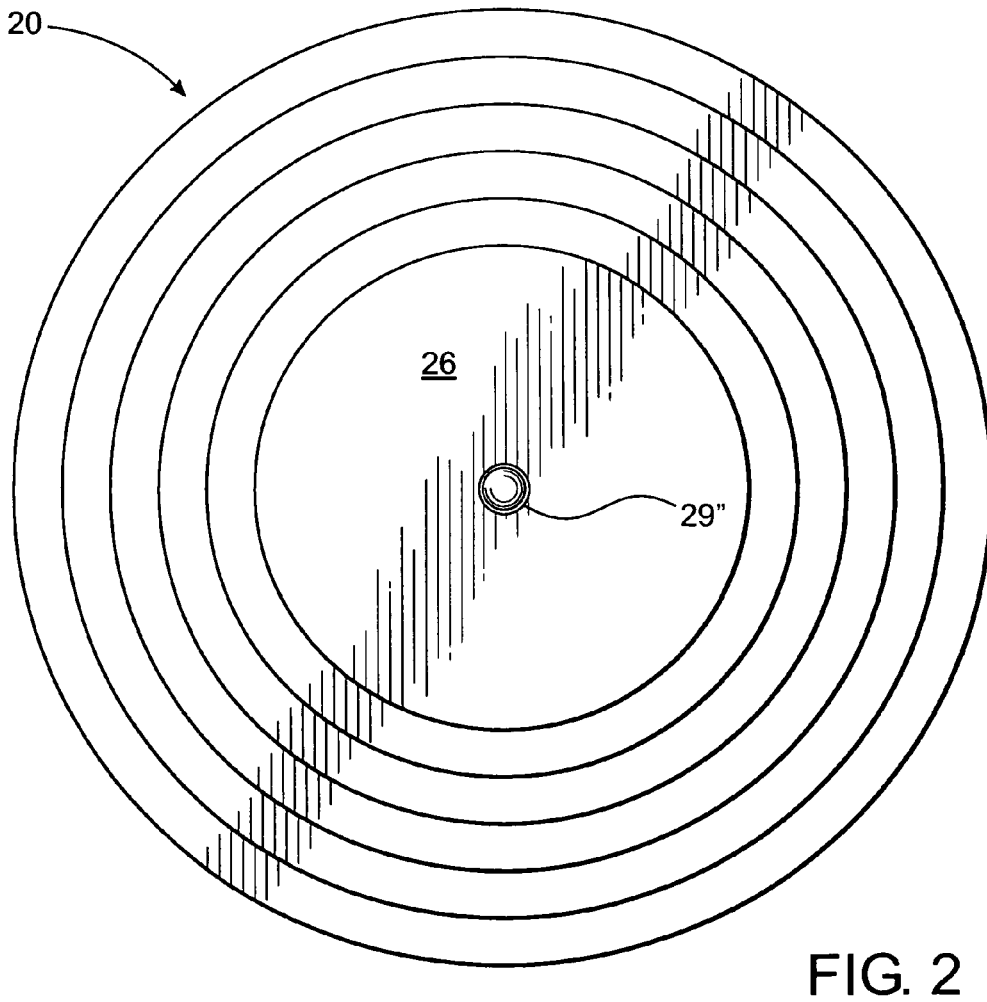
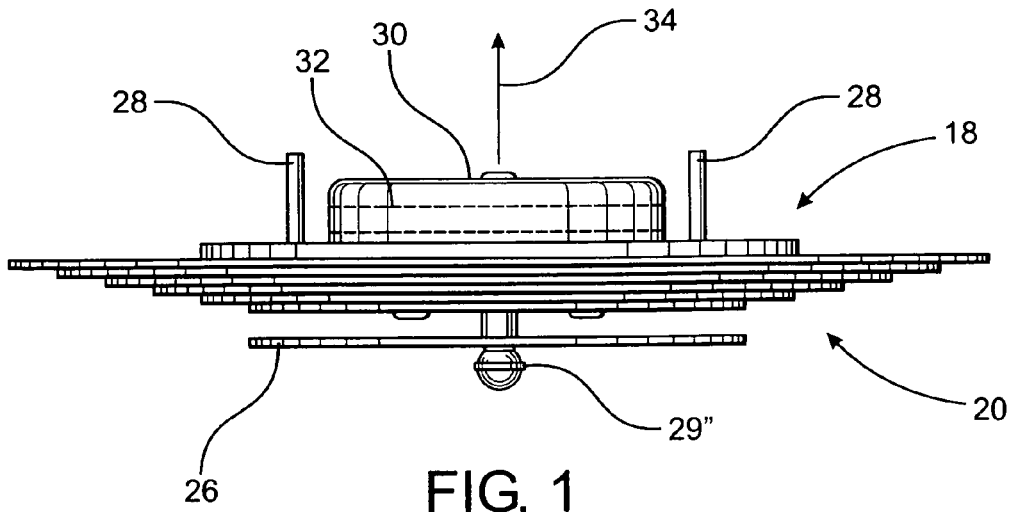
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(57) **ABSTRACT**

A light fixture assembly including an illumination assembly in the form of one or more light emitting diodes is interconnected to an electrical energy source by control circuitry. A mounting assembly supports the illumination assembly and a cover structure is disposed in heat transferring relation to the mounting assembly, wherein both the mounting assembly and the cover structure are formed of conductive material, thereby effectively dissipating the heat generated by the LED illumination assembly. The illumination assembly is connected to a source and electric energy by a conductor assembly comprising one or more conductive material connectors mechanically interconnecting components of the light fixture into an assembled orientation. A non-conductive insulation assembly isolates each of the one or more conductive connectors from the mounting assembly to avoid electrical contact there between.

**22 Claims, 6 Drawing Sheets**





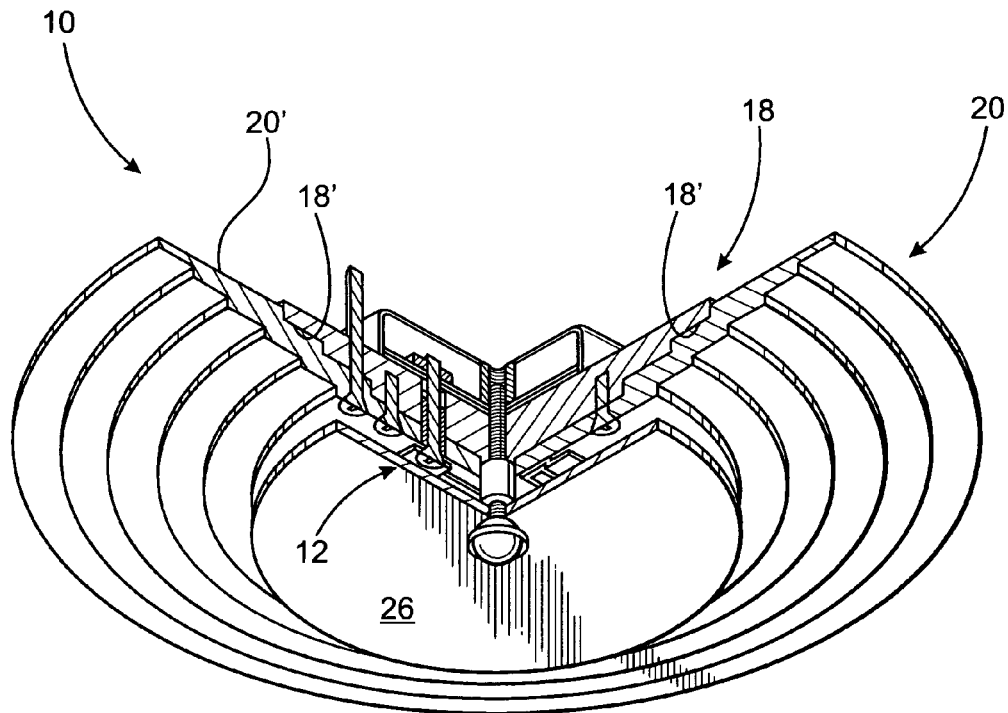


FIG. 3

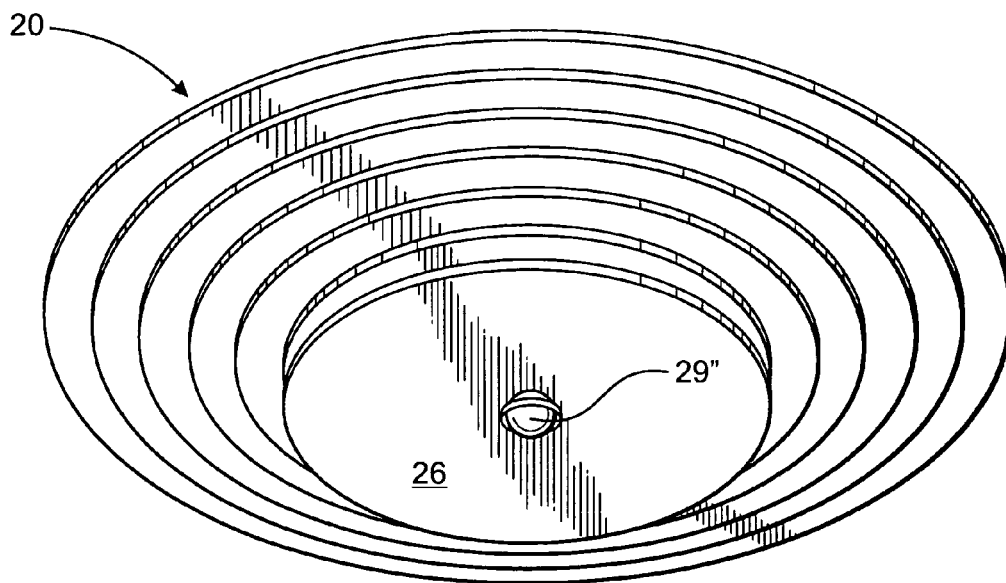


FIG. 4

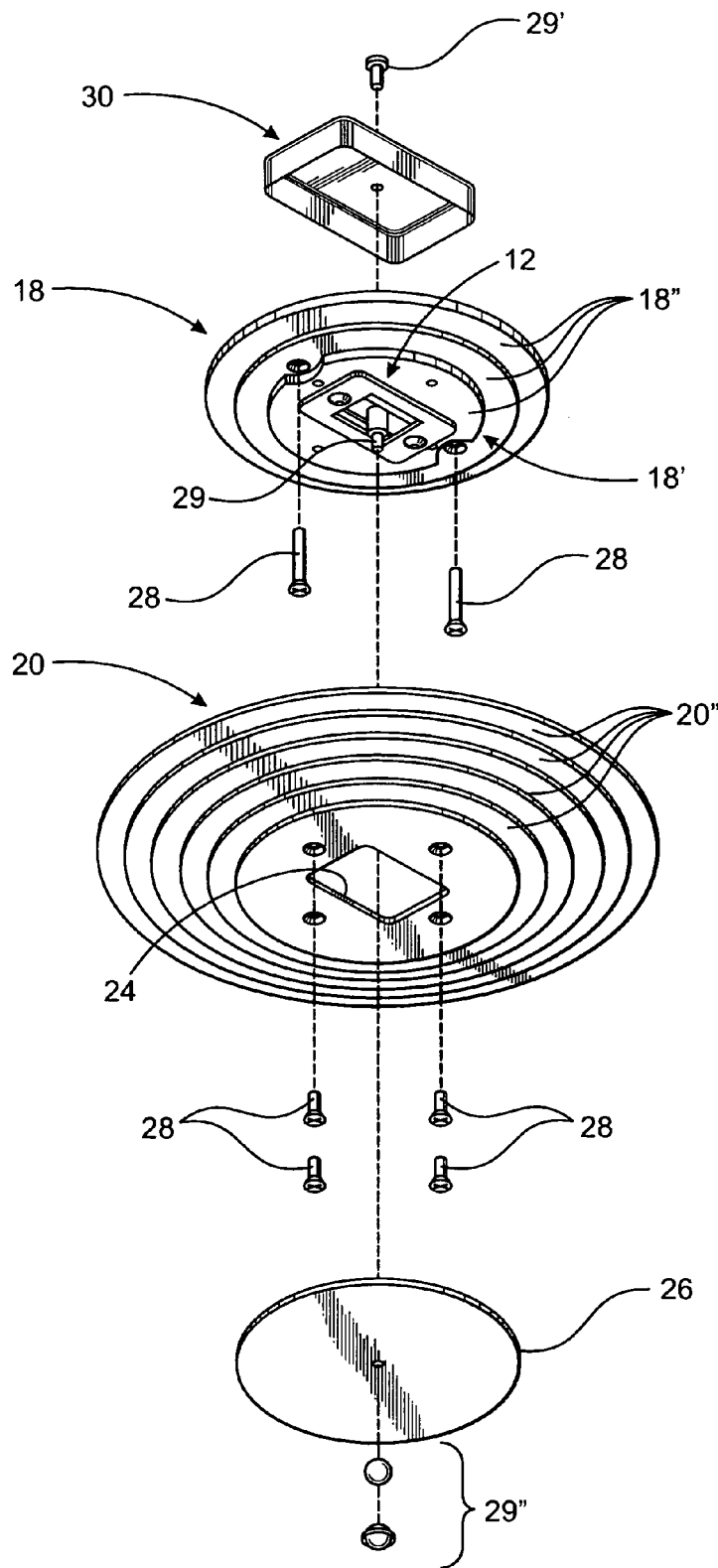


FIG. 5

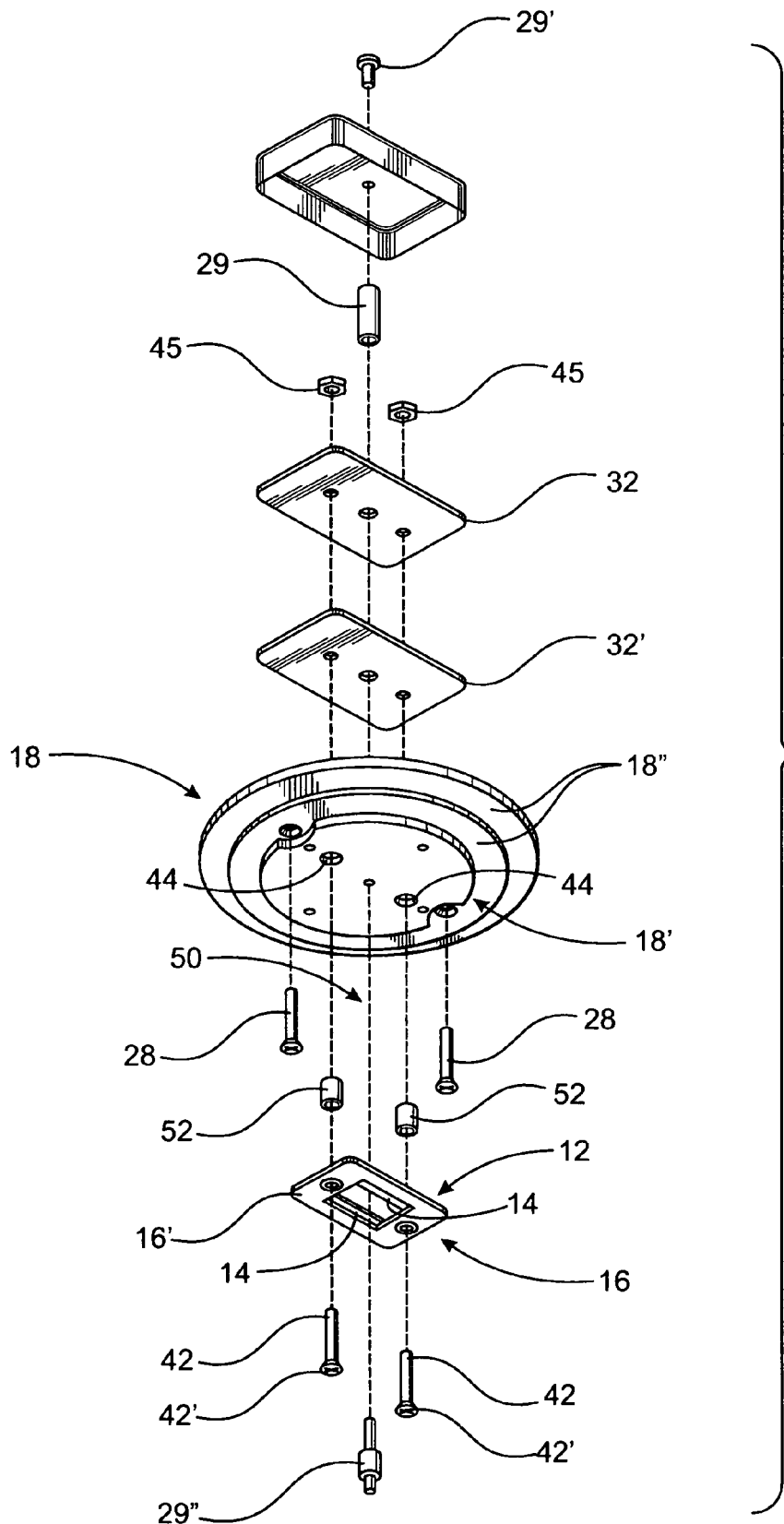


FIG. 6

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