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(54) **POWER LIGHT EMITTING DIE PACKAGE WITH REFLECTING LENS AND THE METHOD OF MAKING THE SAME**

(52) **U.S. Cl. 257/99; 257/433; 257/676; 438/27; 438/123**

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(57) **ABSTRACT**

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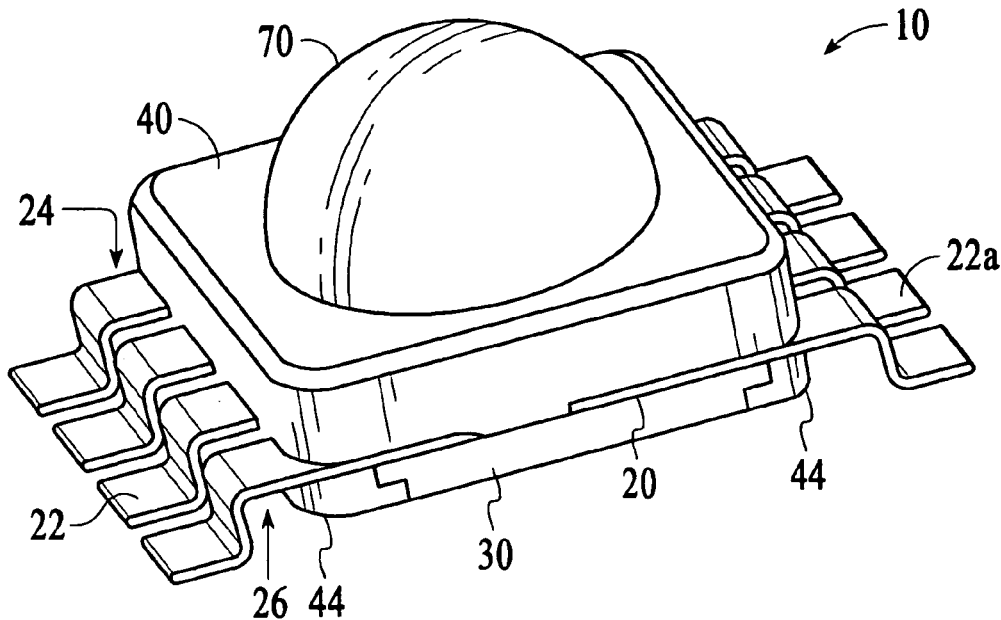
A light emitting die package and a method of manufacturing the die package are disclosed. The die package includes a leadframe, at least one light emitting device (LED), a molded body, and a lens. The leadframe includes a plurality of leads and has a top side and a bottom side. A portion of the leadframe defines a mounting pad. The LED device is mounted on the mounting pad. The molded body is integrated with portions of the leadframe and defines an opening on the top side of the leadframe, the opening surrounding the mounting pad. The molded body further includes latches on the bottom side of the leadframe. The lens is coupled to the molded body. A composite lens is used as both reflector and imaging tool to collect and direct light emitted by LED(s) for desired spectral and luminous performance.

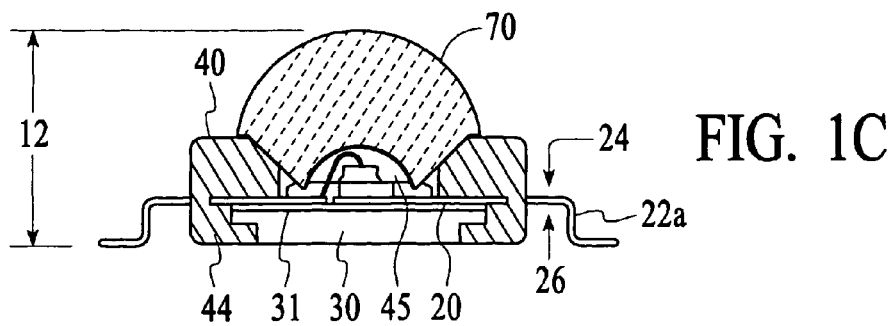
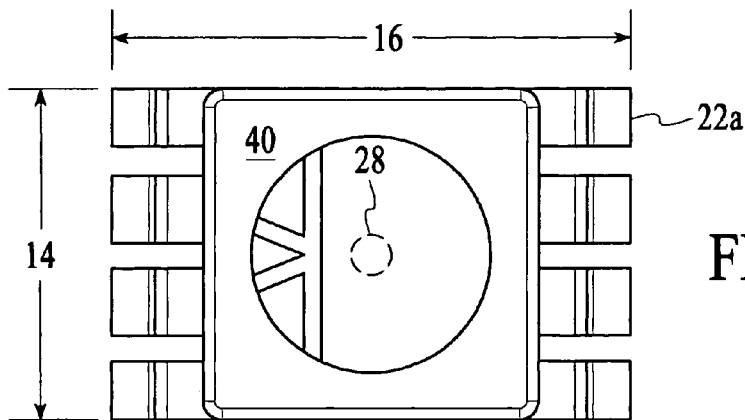
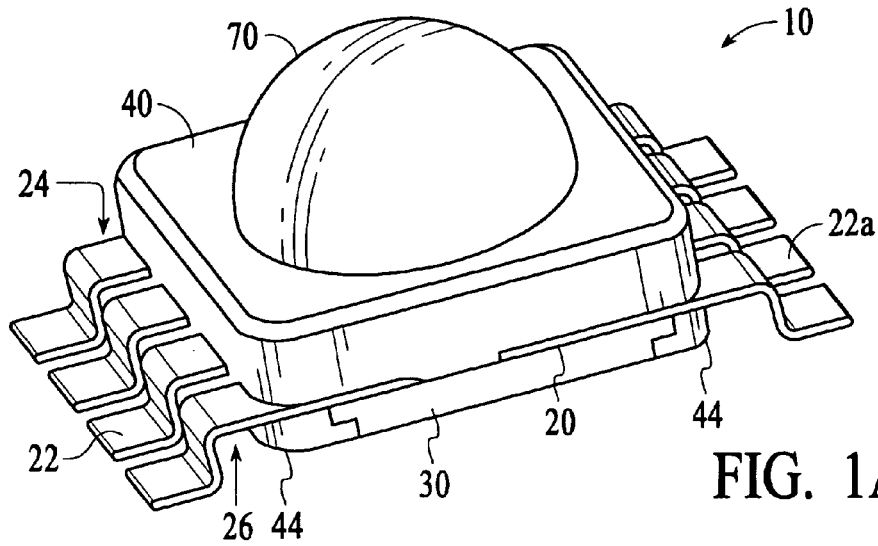
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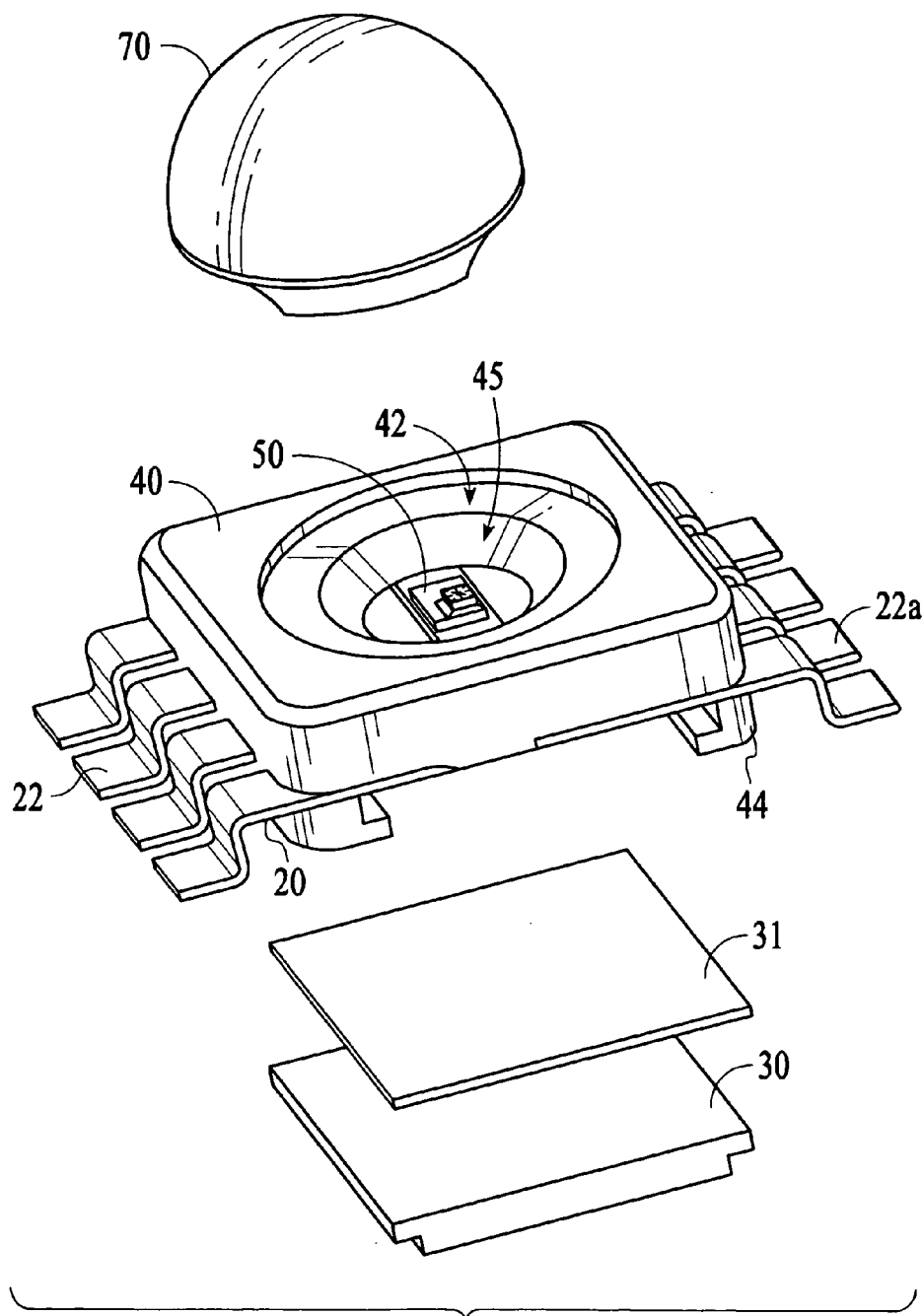


FIG. 2A

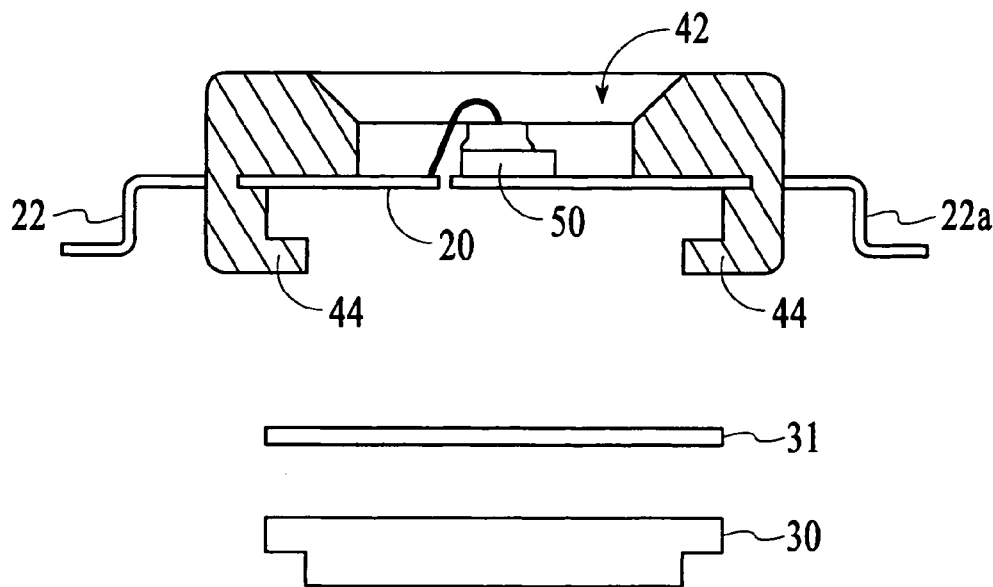
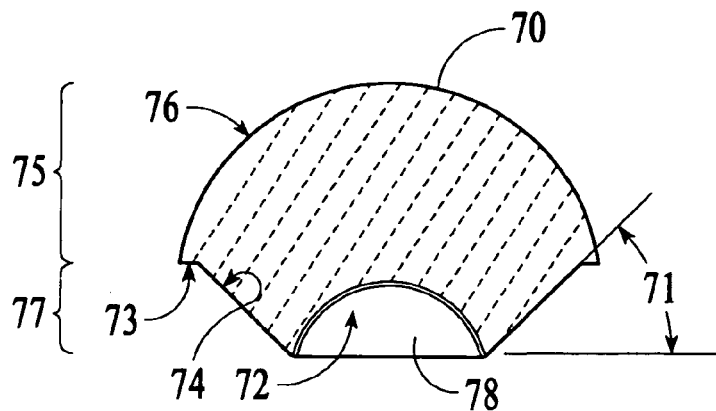


FIG. 2B

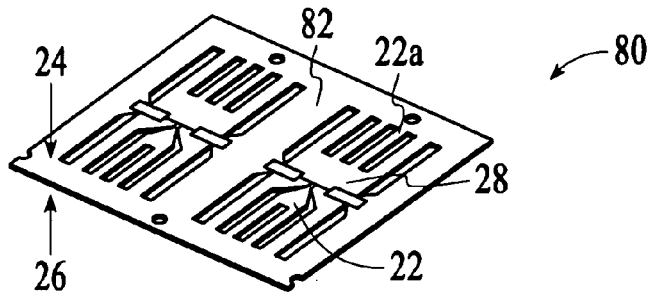


FIG. 3A

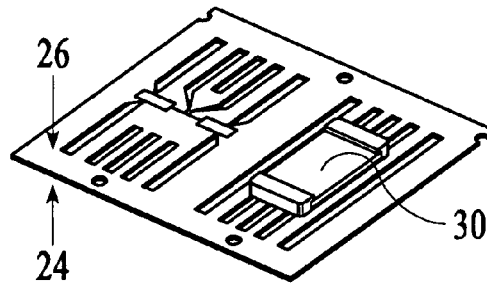


FIG. 3B

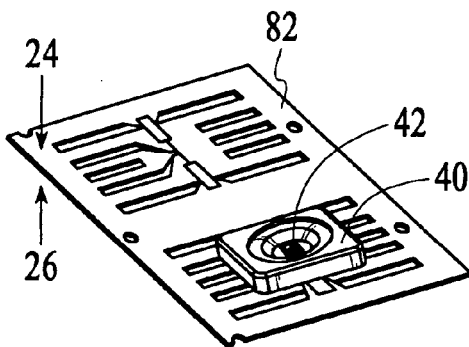


FIG. 3C

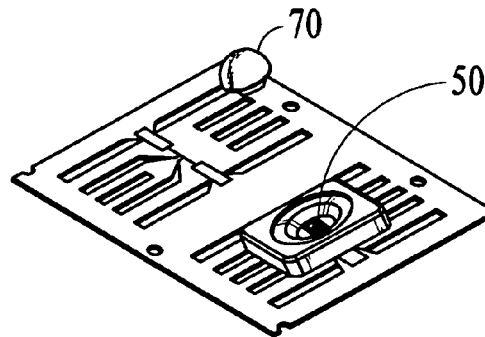


FIG. 3D

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