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**Loh et al.**

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(54) **LEADFRAME-BASED PACKAGES FOR SOLID STATE LIGHT EMITTING DEVICES AND METHODS OF FORMING LEADFRAME-BASED PACKAGES FOR SOLID STATE LIGHT EMITTING DEVICES**

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(57) **ABSTRACT**

A modular package for a light emitting device includes a leadframe including a first region having a top surface, a bottom surface and a first thickness and a second region having a top surface, a bottom surface and a second thickness that is less than the first thickness. The leadframe further includes an electrical lead extending laterally away from the second region, and the package further includes a thermoset package body on the leadframe and surrounding the first region. The thermoset package body may be on both the top and bottom surfaces of the second region. A leak barrier may be on the leadframe, and the package body may be on the leak barrier. Methods of forming modular packages including thermoset package bodies on leadframes are also disclosed.

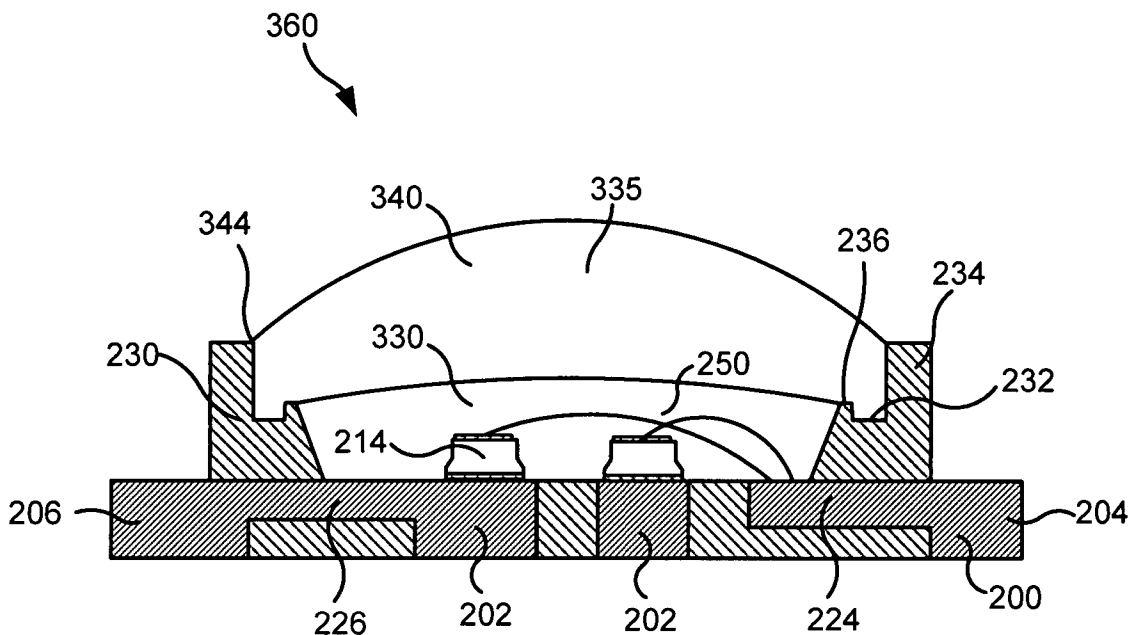
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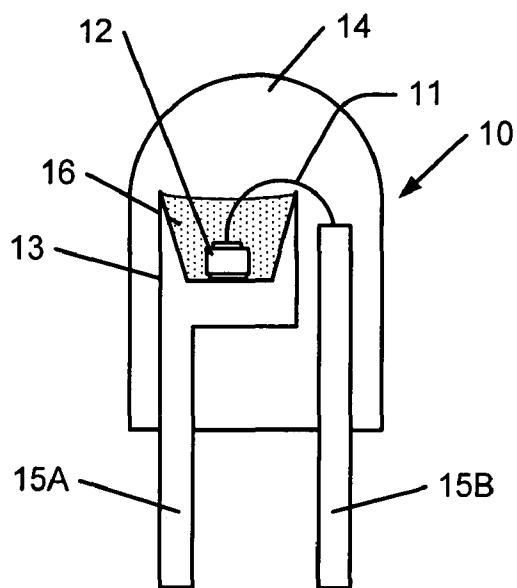
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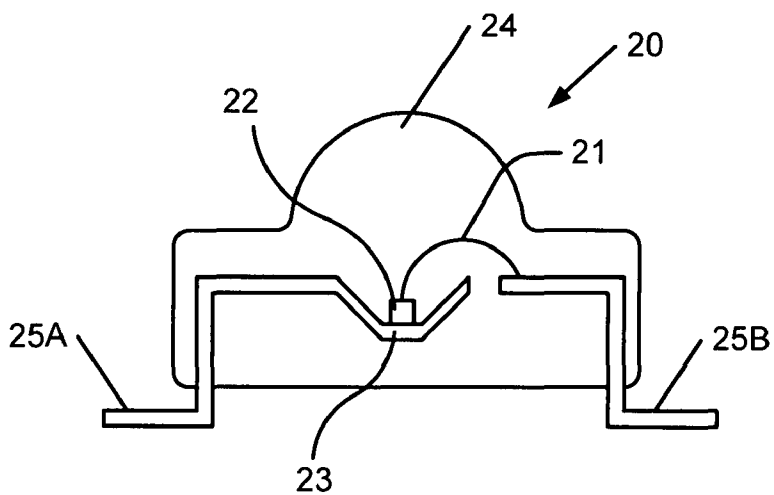
**Related U.S. Application Data**

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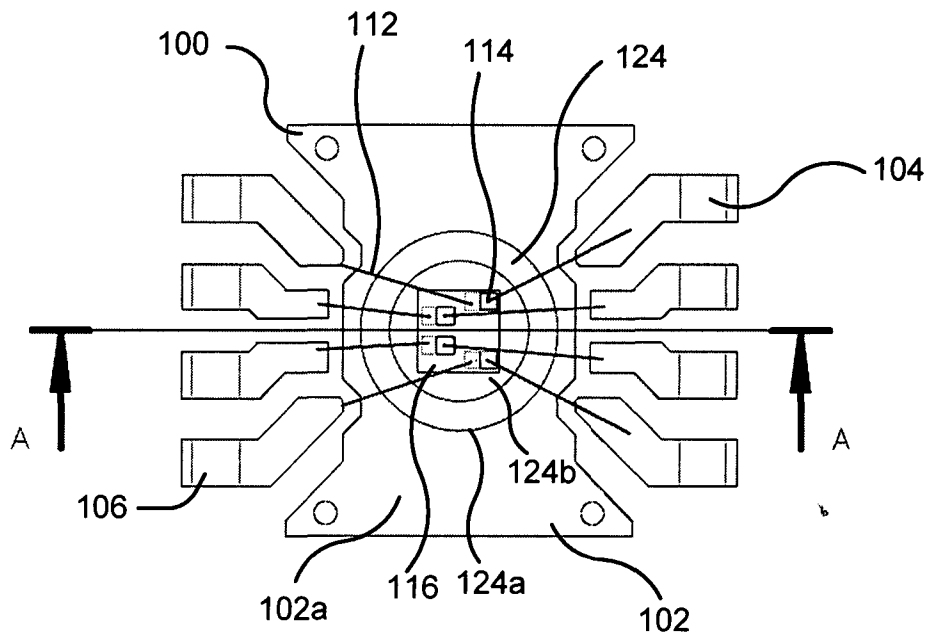




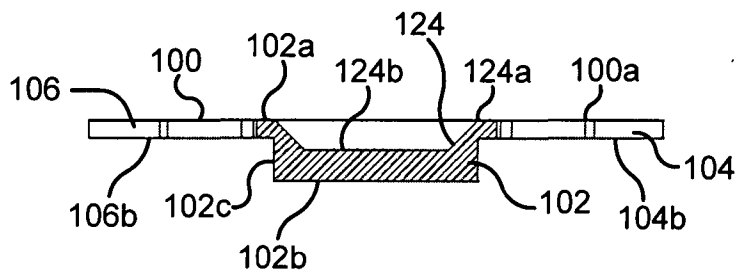
**FIG. 1A**  
**PRIOR ART**



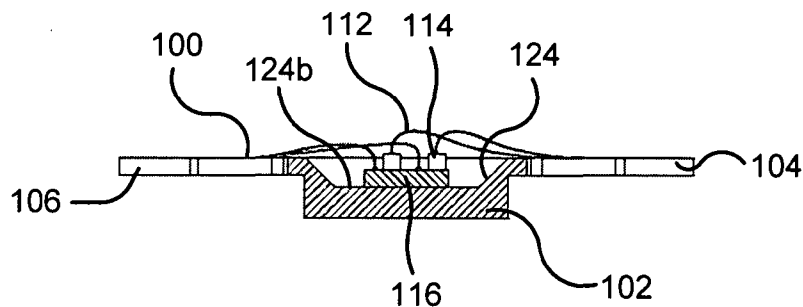
**FIGURE 1B**  
**PRIOR ART**



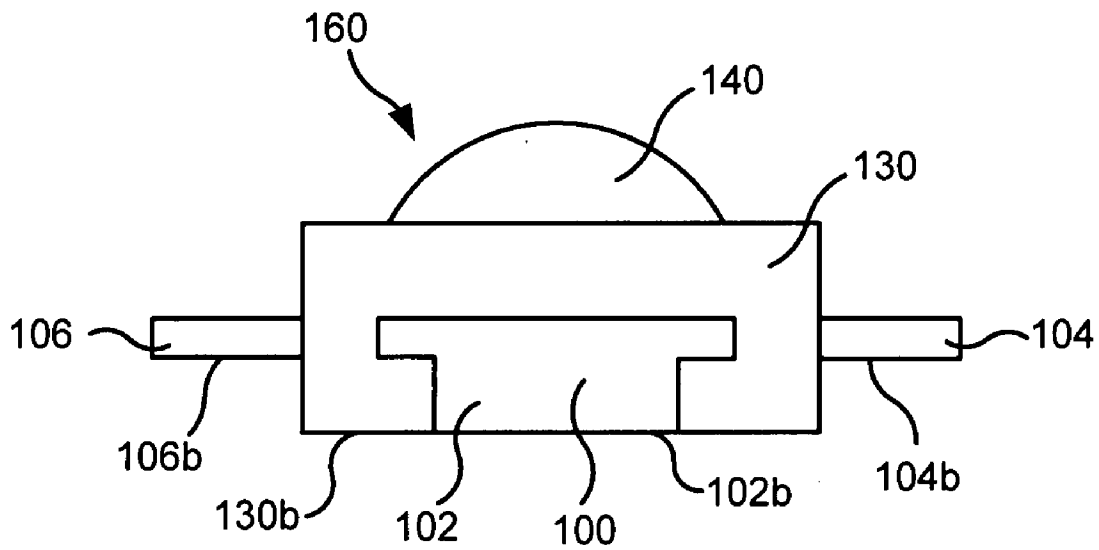
**FIGURE 2A**



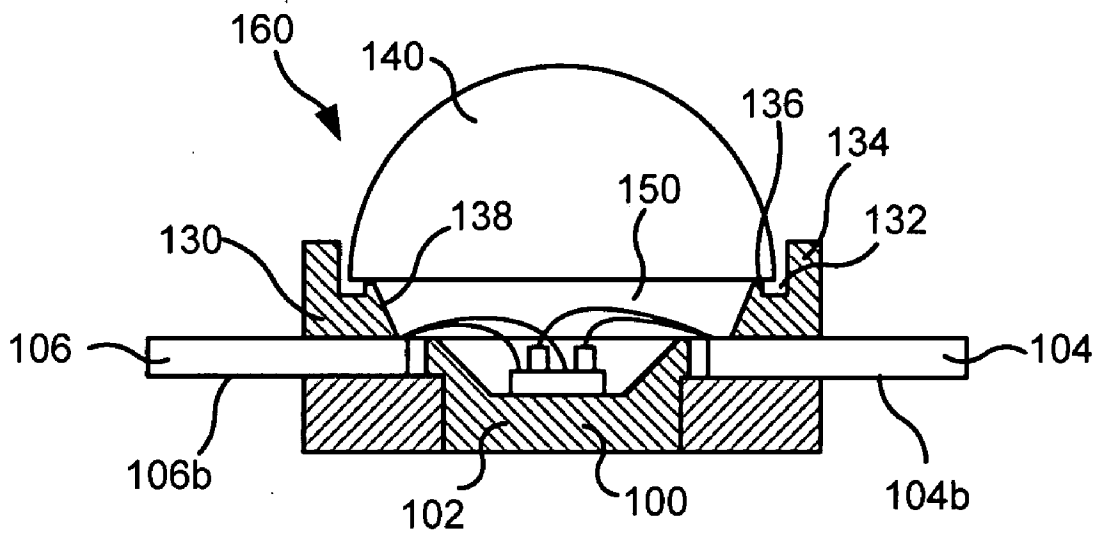
**FIGURE 2B**



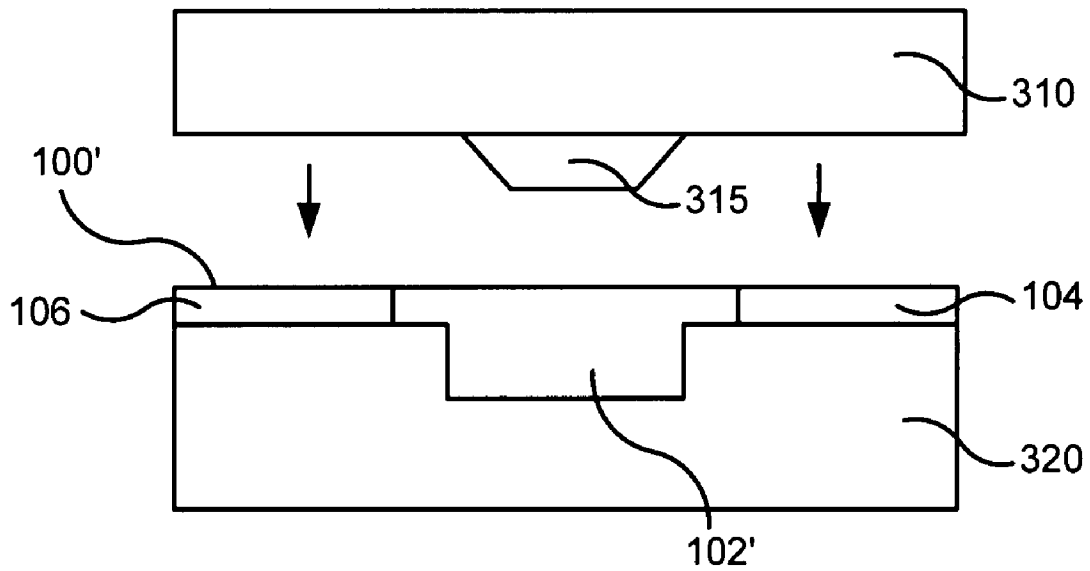
**FIGURE 2C**



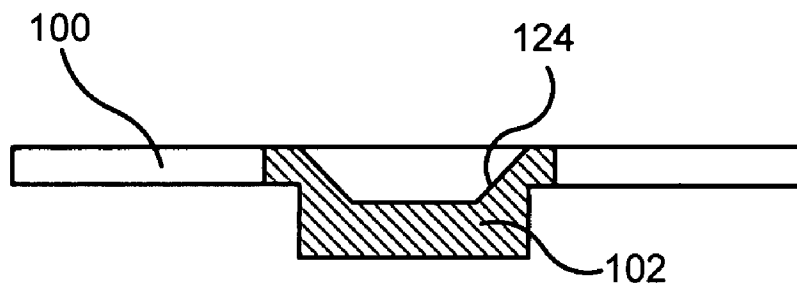
**FIGURE 3A**



**FIGURE 3B**



**FIGURE 4A**



**FIGURE 4B**

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