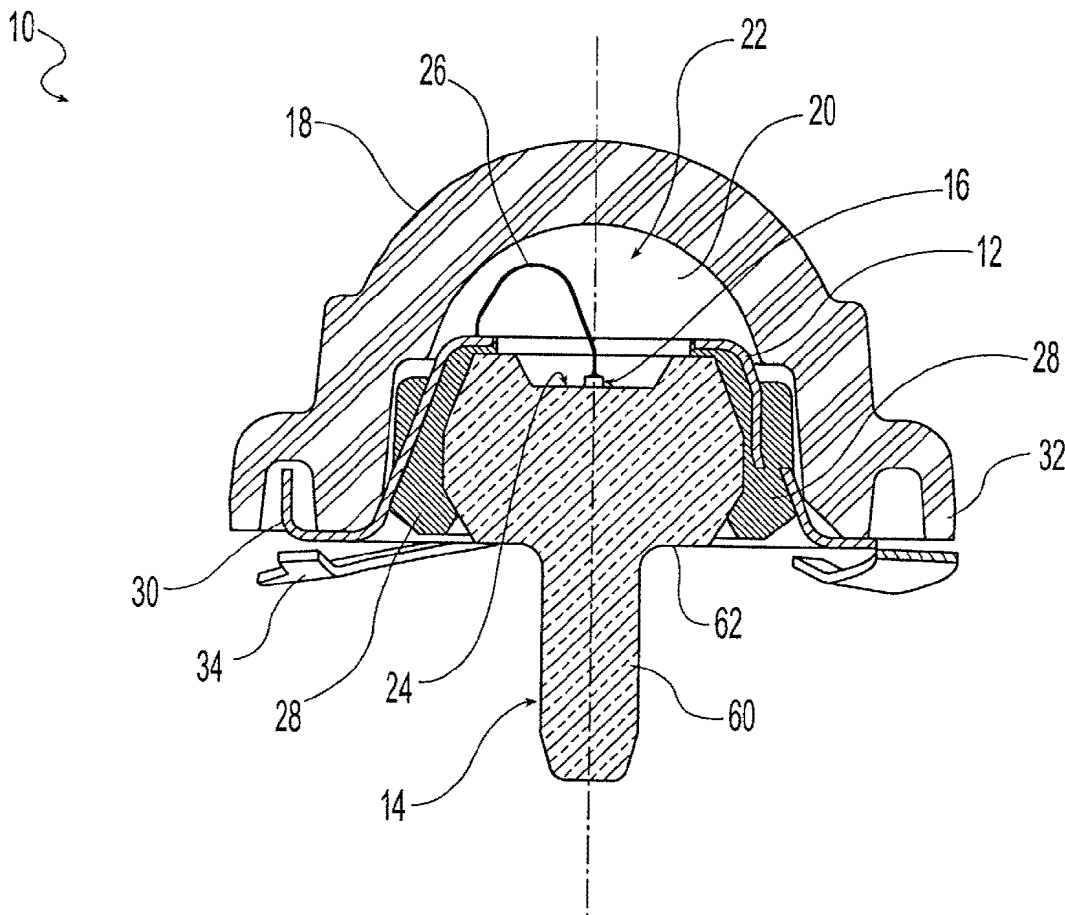


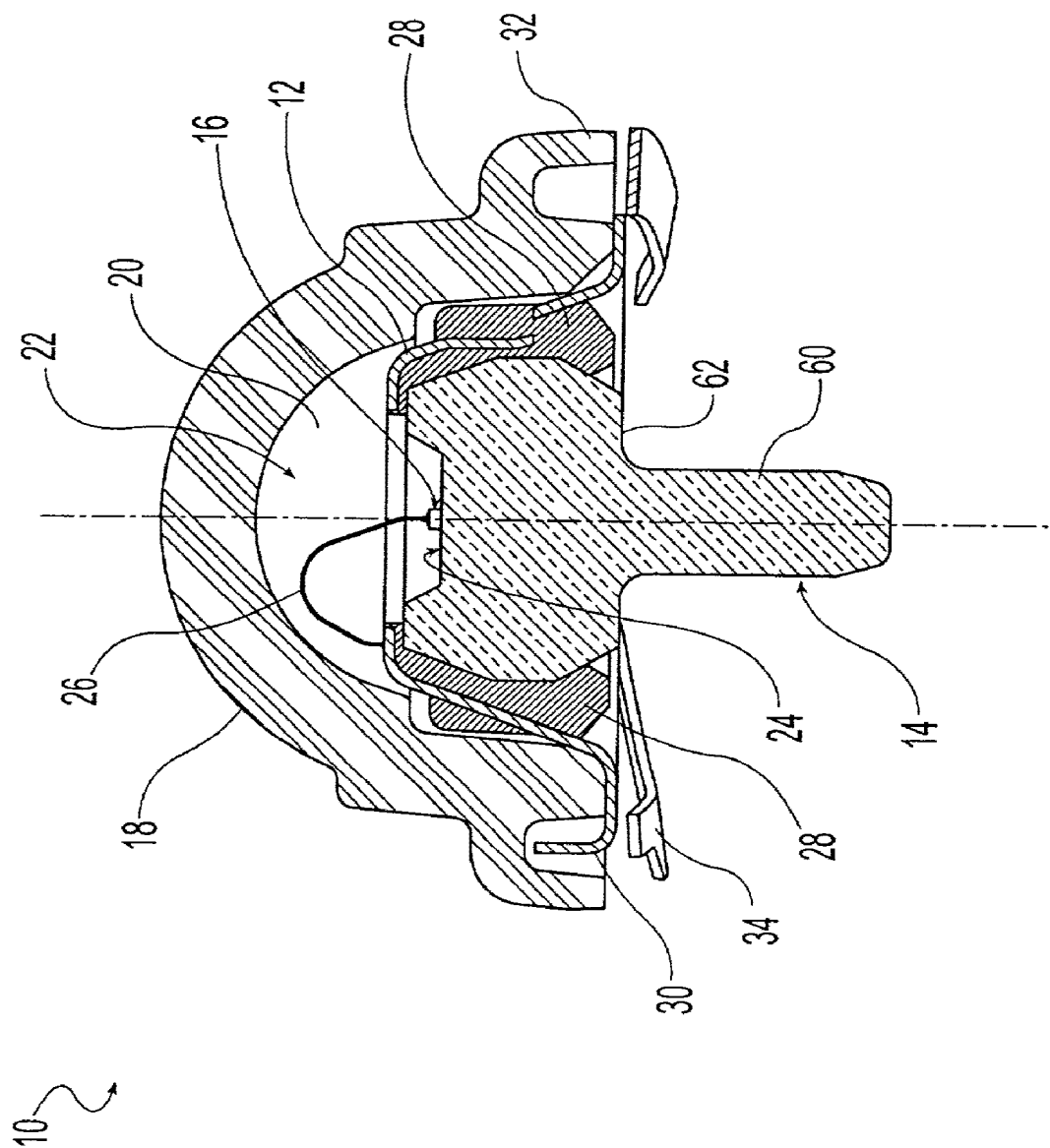
(19) **United States**(12) **Patent Application Publication****Barnett et al.**(10) **Pub. No.: US 2002/0113244 A1**(43) **Pub. Date: Aug. 22, 2002**(54) **HIGH POWER LED**(52) **U.S. Cl. .... 257/98; 257/432**(76) **Inventors: Thomas J. Barnett**, Columbus, OH  
(US); **Sean P. Tillinghast**, Bexley, OH  
(US)(57) **ABSTRACT**

Correspondence Address:

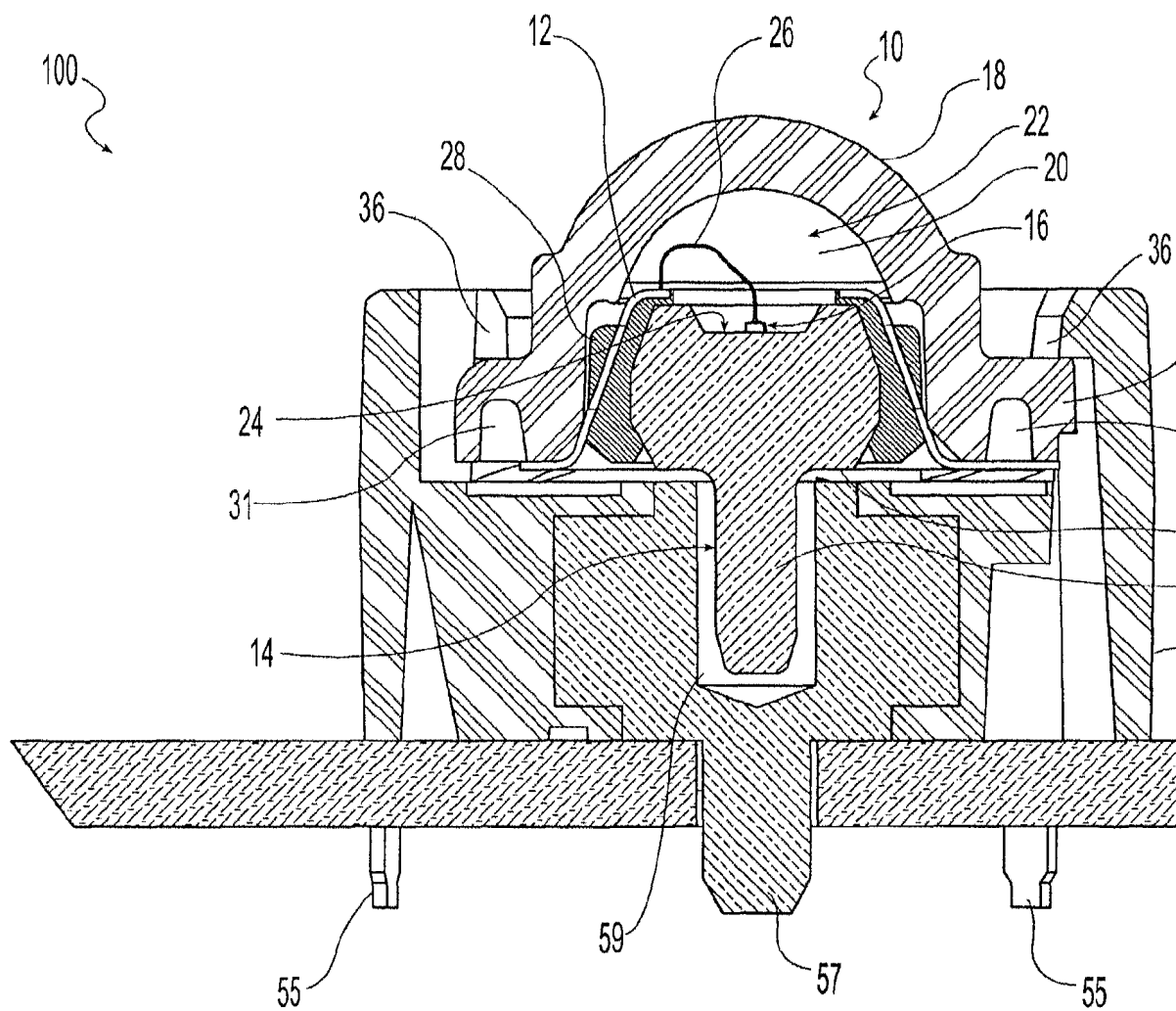
**James R. Eley, Esq.****Thompson Hine LLP****Suite 700****10 W. Broad St.****Columbus, OH 43215-3435 (US)**(21) **Appl. No.: 10/073,731**(22) **Filed: Feb. 11, 2002****Related U.S. Application Data**(60) **Provisional application No. 60/270,572, filed on Feb. 22, 2001.****Publication Classification**(51) **Int. Cl.<sup>7</sup> ..... H01L 33/00**

A method and system are taught for a system comprising an LED package. The LED package may comprise an anode, a cathode coupled to the anode, an LED die coupled to the cathode and the anode, a lens coupled to the anode, and a viscous or silicone material located in a cavity defined by the lens, the cathode, and the anode. The viscous or silicone material may be a gel, a grease, a non-resilient material, or a non-liquid material. The method and system may further comprise a mounting device, wherein the lens is mechanically coupled to the mounting device in a socket, bayonet, or screwing like fashion. The method and system may further comprise an anode strip comprising an array of anodes utilized to form an array of the LED packages and a carrier strip comprising receiving devices to receive the array of LED packages. A portion of the lens may either be coated with or comprise light excitable material or the viscous material may comprise light excitable material, such that the system emits white light.

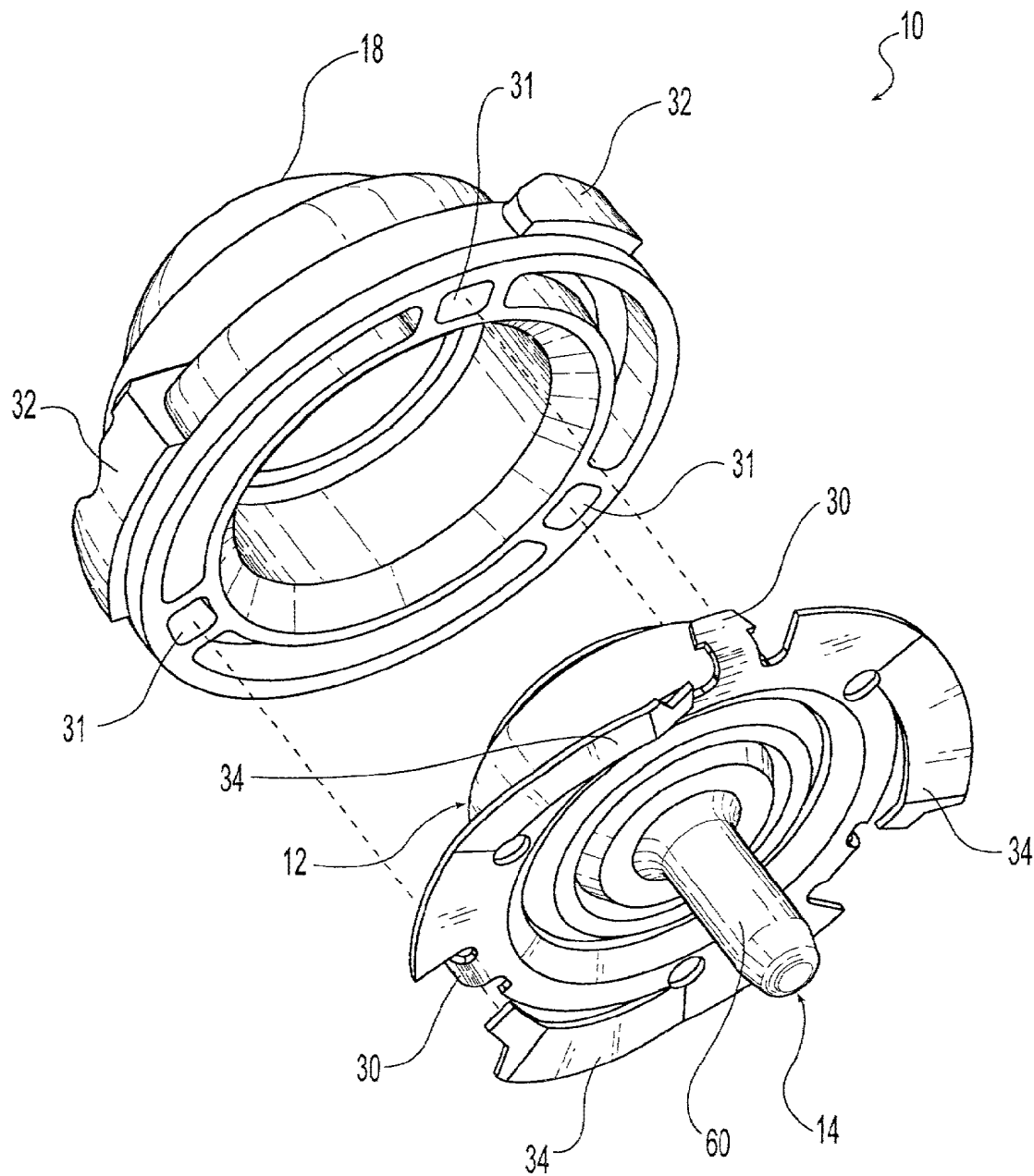




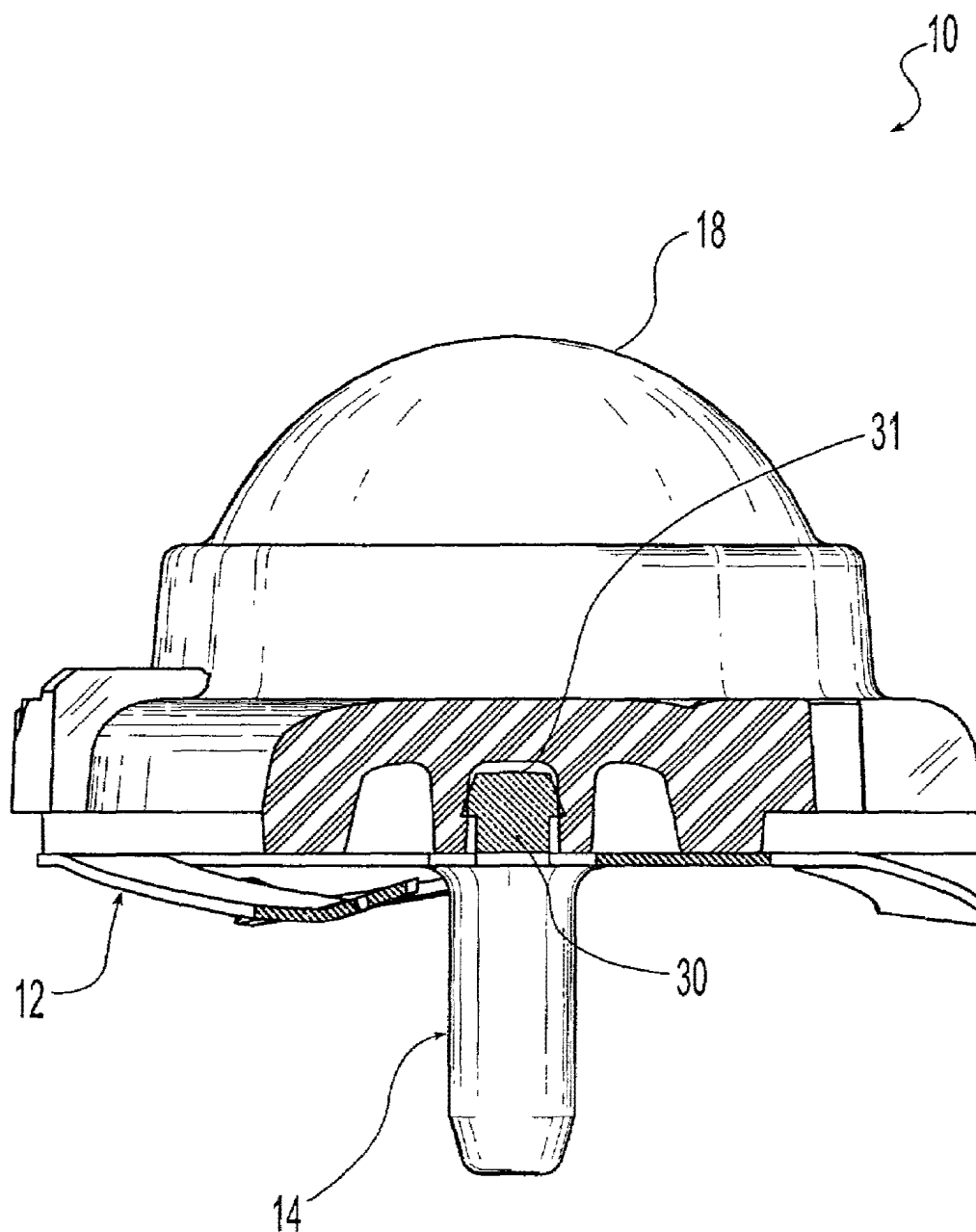
*Fig. 1A*



*Fig. 1B*



*Fig. 2*



*Fig. 3*

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