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United States Patent [19]  
Catlin et al.

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- [54] EXTERIOR REARVIEW MIRROR FOR VEHICLES
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- [73] Assignee: KAM Truck Components, Inc., Holland, Mich.
- [21] Appl. No.: 604,758
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- [51] Int. Cl.<sup>6</sup> ..... G02B 5/08; G02B 7/182; A47G 1/24
- [52] U.S. Cl. .... 359/865; 359/872; 359/877; 248/476
- [58] Field of Search ..... 359/855, 864, 359/865, 871, 872, 877; 248/476, 481
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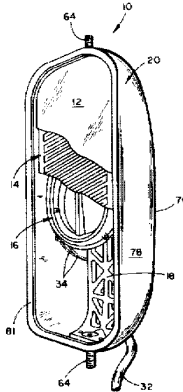
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[57] ABSTRACT

An exterior rearview mirror assembly for vehicles such as trucks, vans and recreation vehicles provides reduced weight and vibration and improved stability. The assembly includes a mirror mount securing a reflective mirror element to an elongated support bracket, and a mirror housing secured to the support bracket and shielding the mirror element, mount and support bracket. The support bracket spans the interior of the housing from adjacent one end of the housing to adjacent the other end, is spaced from the side and rear walls of the housing, and has spaced, elongated support members and at least one brace member extending between the support members. Preferably, the brace members are arranged in an X-pattern along the bracket length, while the mirror mount is an electric actuator providing remote adjustment of the mirror element about multiple axes. In one form, the bracket may include a covering wall over the brace members and support members to increase rigidity and reduce vibration. Also, the bracket may support two spaced actuators for separate, independent adjustment of a planar mirror element and a convex mirror element.

62 Claims, 8 Drawing Sheets



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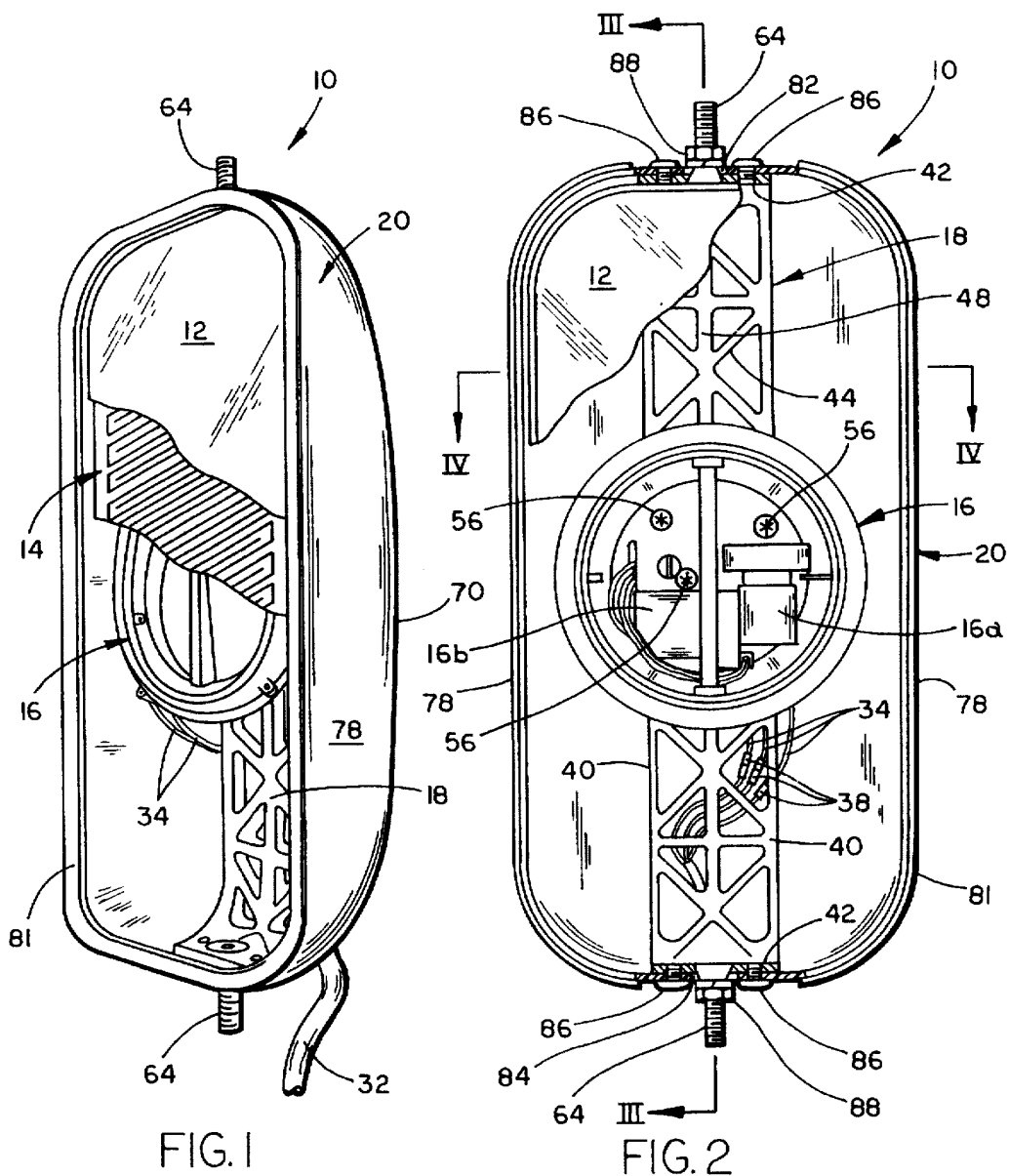
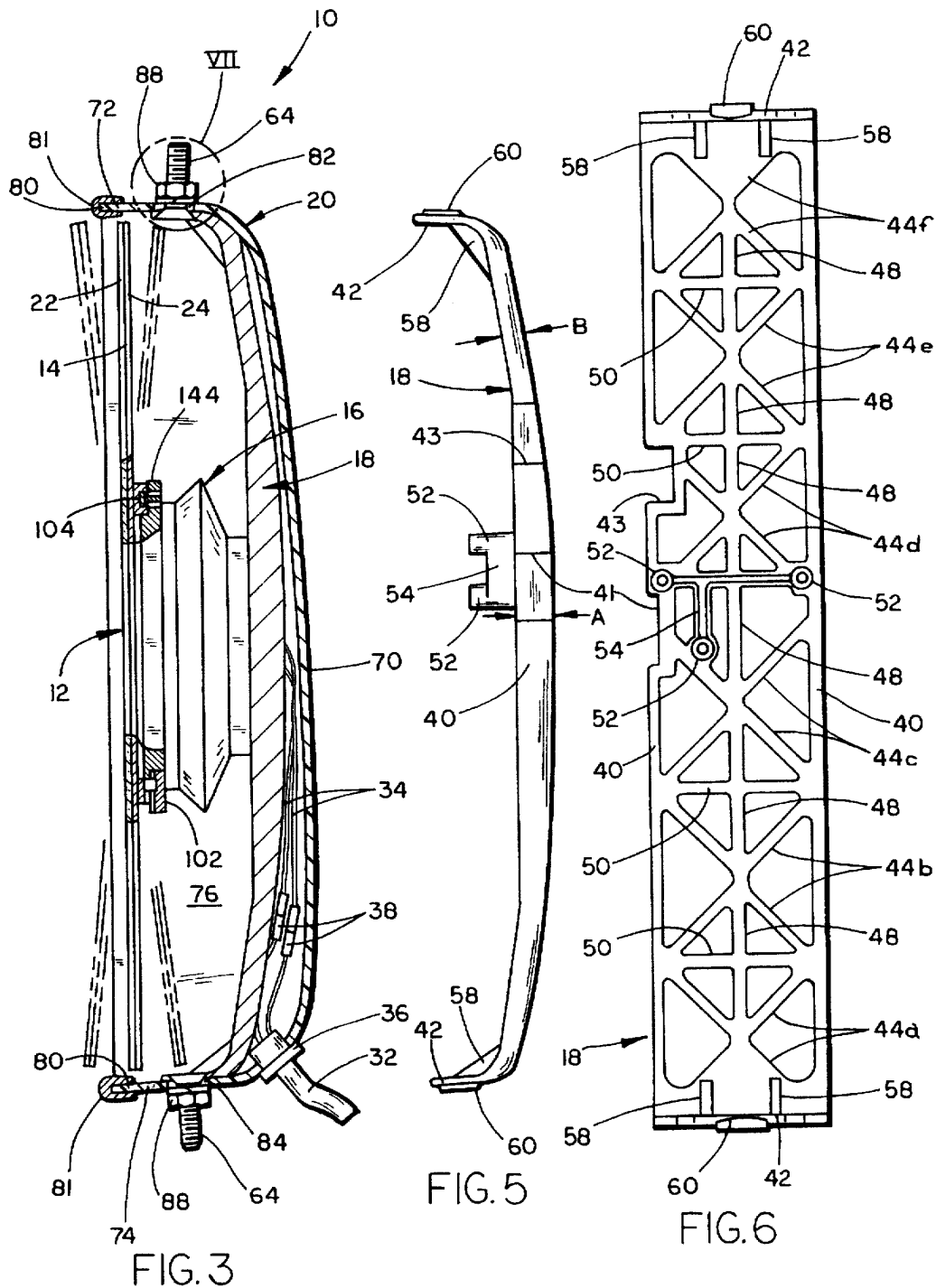


FIG. 1

FIG. 2



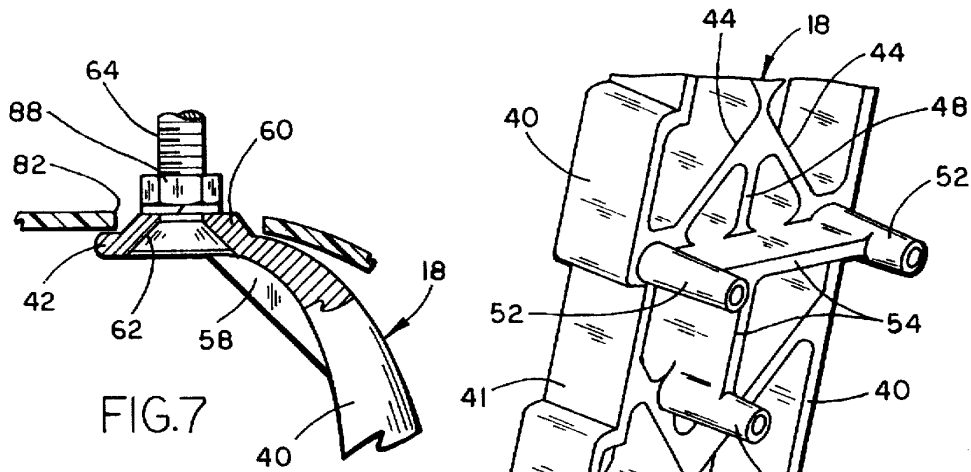
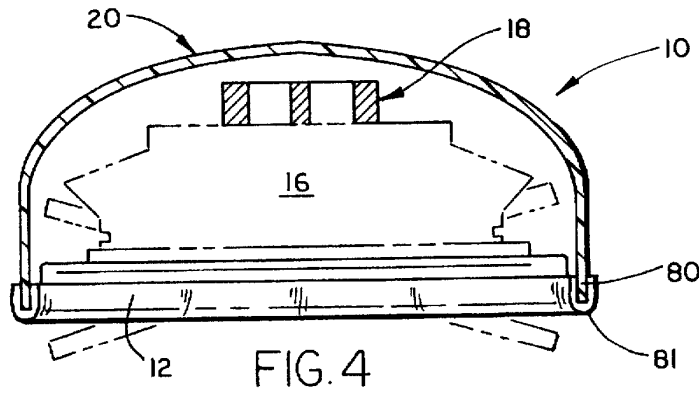


FIG. 7

FIG. 8

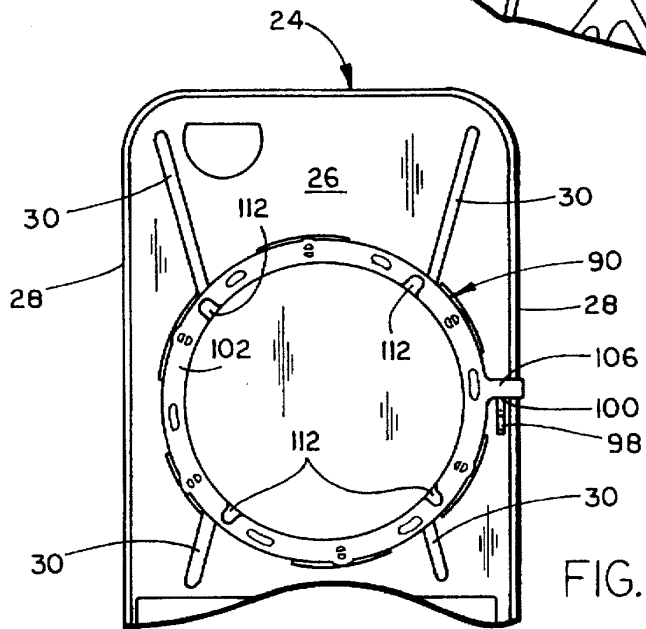


FIG. 9

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