

(12) **United States Patent**
Parker

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(54) **LIGHT EMITTING PANEL ASSEMBLIES**
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(73) Assignee: **Solid State Opto Limited** (VG)
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 282 days.

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F21V 7/04 (2006.01)
(52) **U.S. Cl.** **362/601**; 362/612; 362/613; 362/623; 362/609; 362/231
(58) **Field of Classification Search** 362/601, 362/602, 603, 606, 607, 612, 613, 618, 619, 362/620, 623-627, 231, 26, 609
See application file for complete search history.

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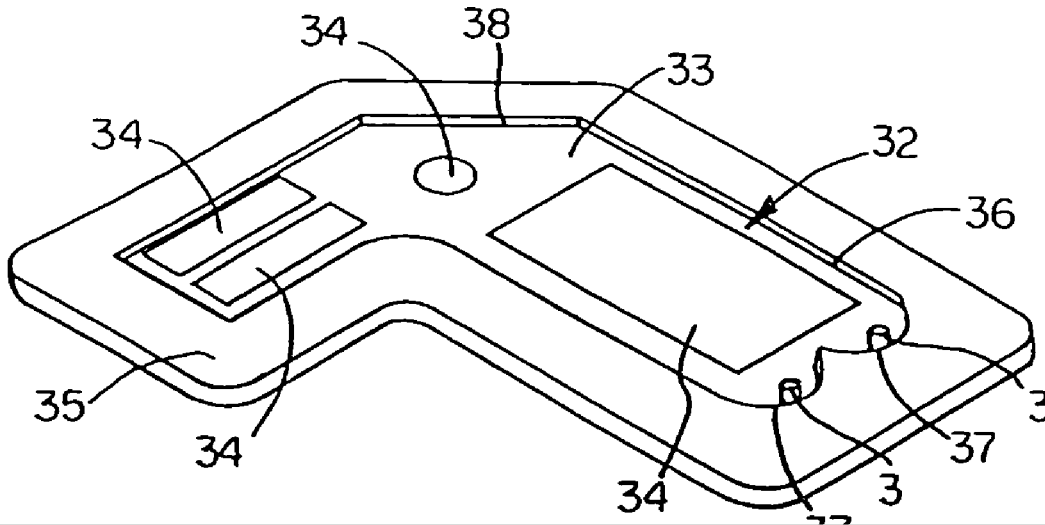
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(57) **ABSTRACT**

Light emitting assemblies include a tray that forms a cavity or recess containing one or more light sources. A sheet, film or substrate is positioned over the cavity or recess for controlling the light emitted from the assembly. The tray acts as a back, side or edge reflector, and has one or more secondary reflective or refractive surfaces.

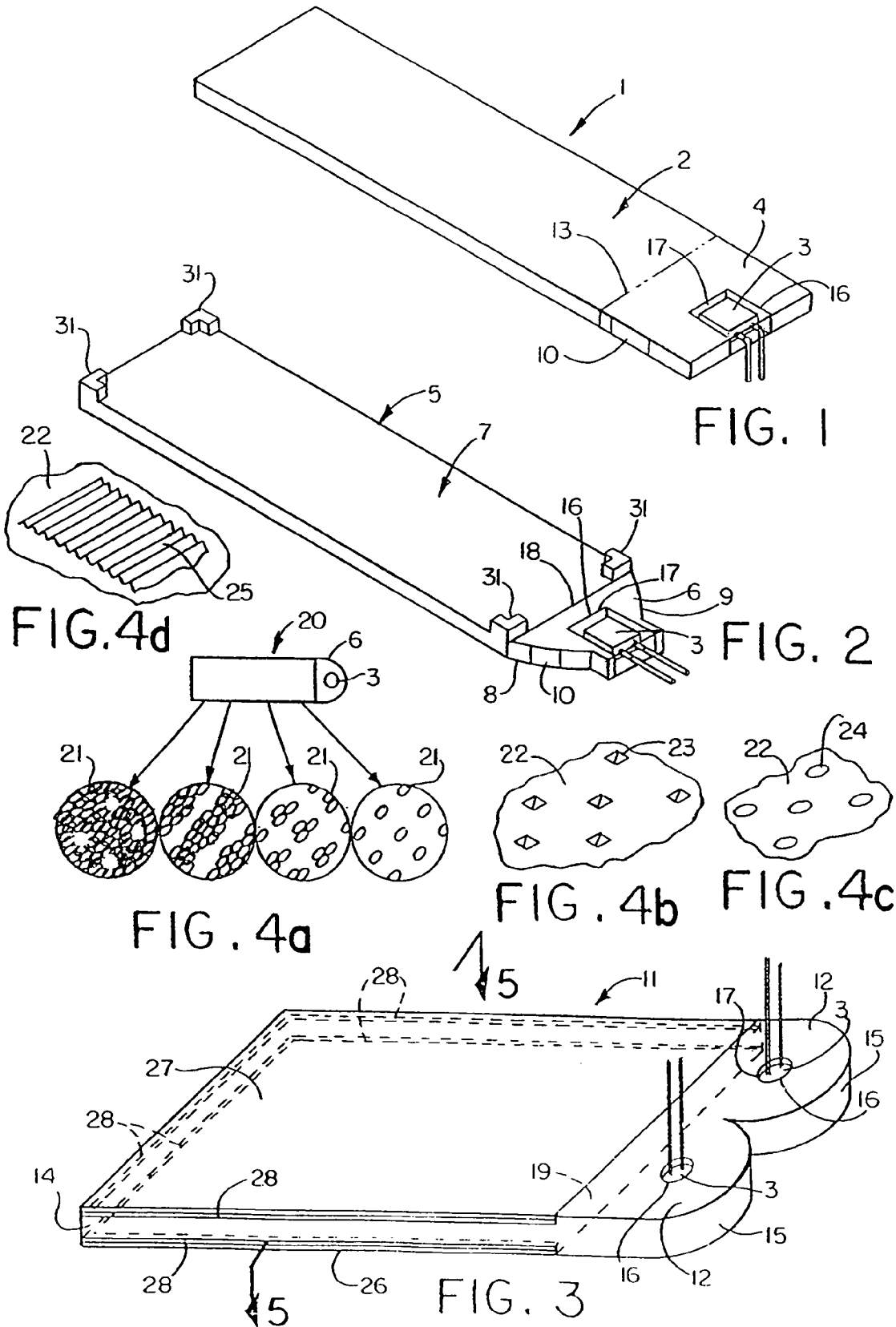
27 Claims, 4 Drawing Sheets

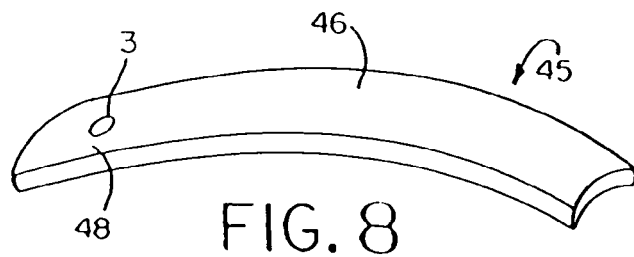
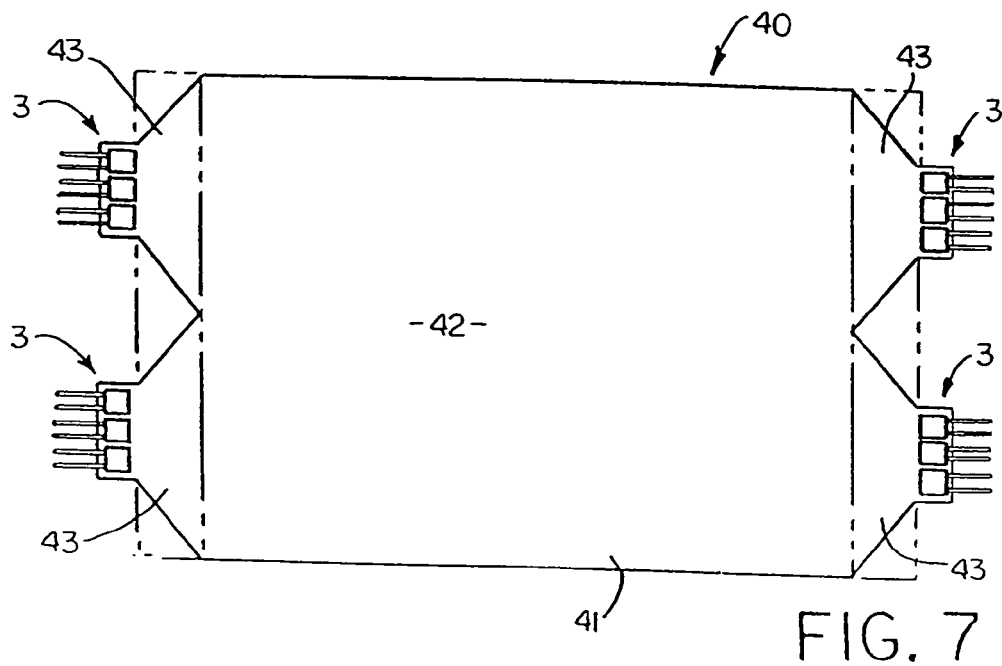
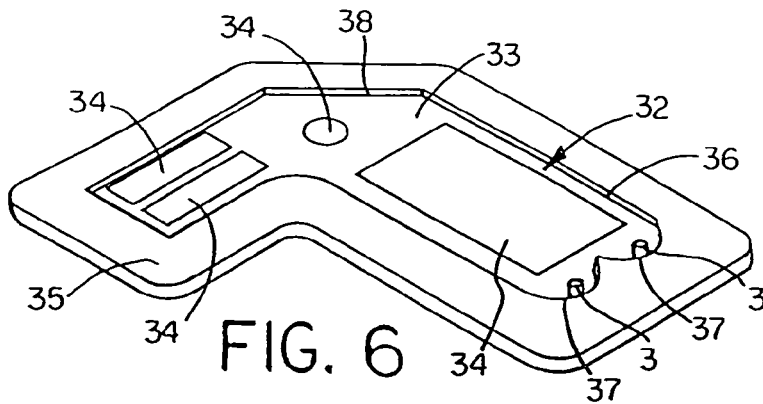
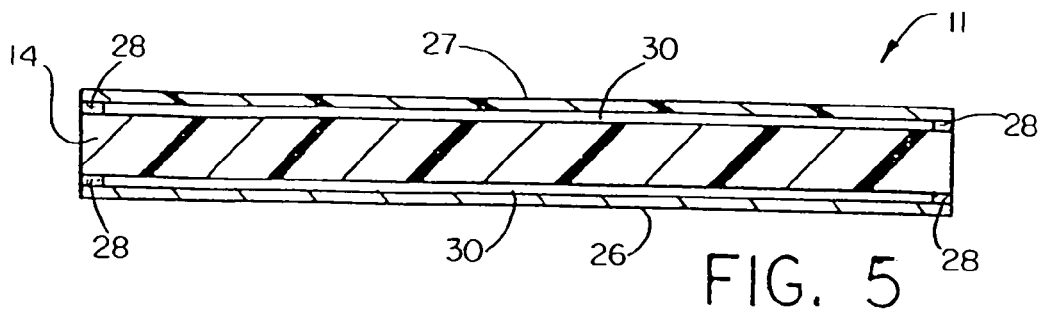


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