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Parker et al.

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(54) **LIGHT EMITTING PANEL ASSEMBLIES**

(56)

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(75) Inventors: **Jeffery R. Parker**, Strongsville, OH (US); **Gregory A. Coghlan**, Olmsted Falls, OH (US); **Robert M. Ezell**, Copley, OH (US)

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(73) Assignee: **Solid State Opto Limited** (VG)

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This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

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F21V 7/00 (2006.01)

(52) **U.S. Cl.** **362/606**; 362/613; 362/618;
362/619

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349/65, 63, 62

See application file for complete search history.

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Primary Examiner—Sandra O’Shea

Assistant Examiner—Bao Q Truong

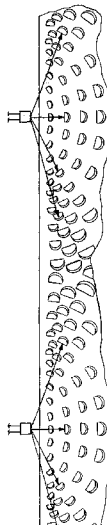
(74) *Attorney, Agent, or Firm*—Renner, Otto, Boisselle & Sklar, LLP

(57)

ABSTRACT

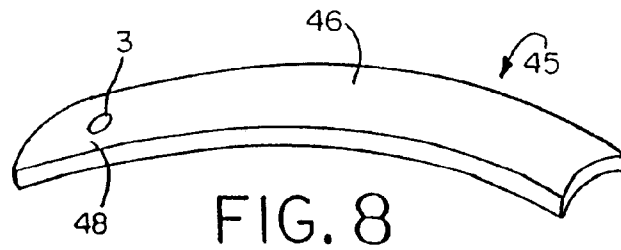
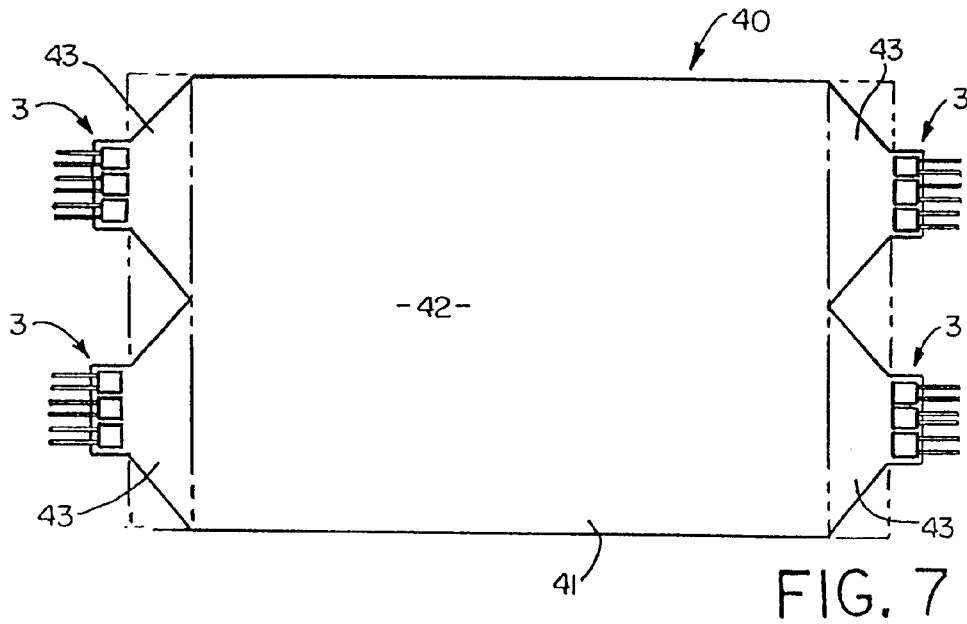
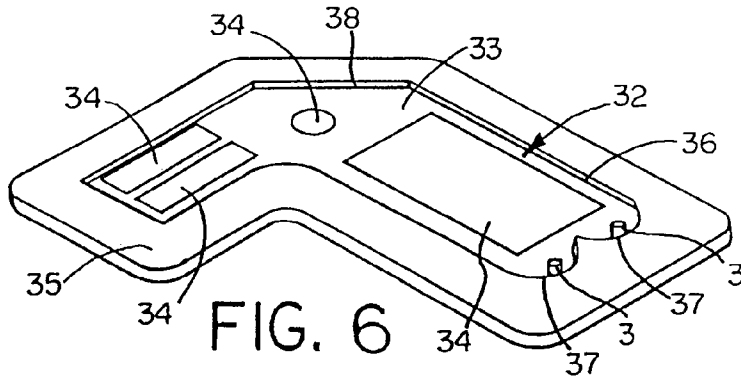
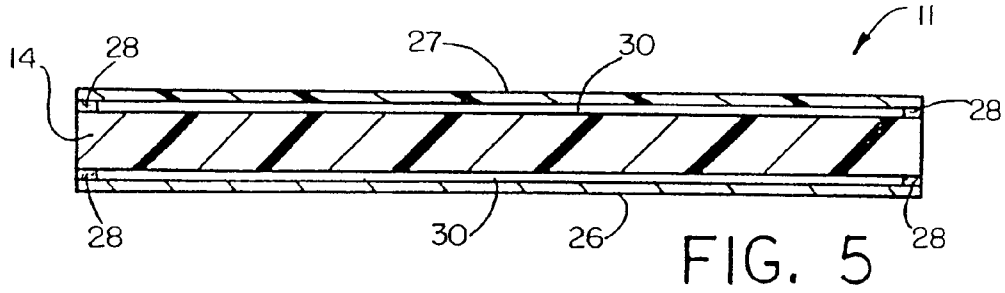
Light emitting panel assemblies include a light emitting panel member having at least one light source optically coupled to a portion of an input edge of the panel member. A plurality of individual light extracting deformities on or in at least one panel surface of the panel member are of well defined shape and have a length and width substantially smaller than the length and width of the panel surface. At least some of the deformities have at least one surface that is angled at different orientations relative to the input edge depending on the location of the deformities on the panel surface to face a portion of the input edge to which a light source is optically coupled.

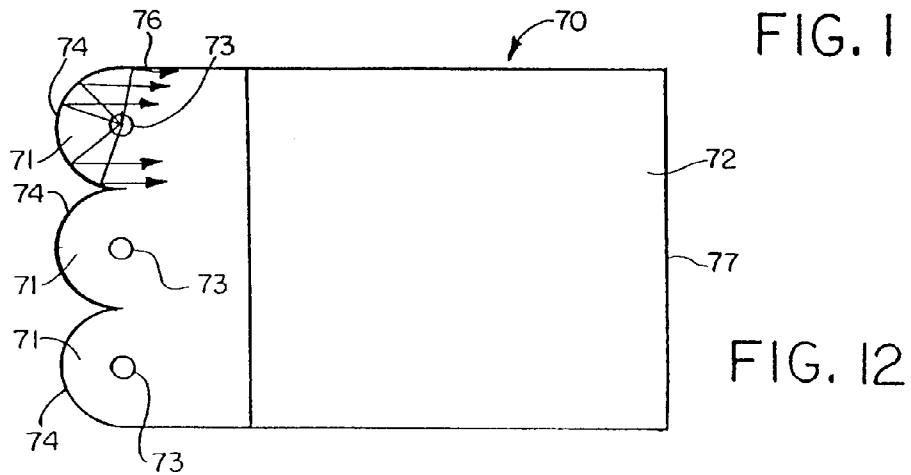
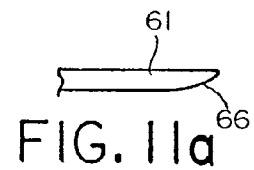
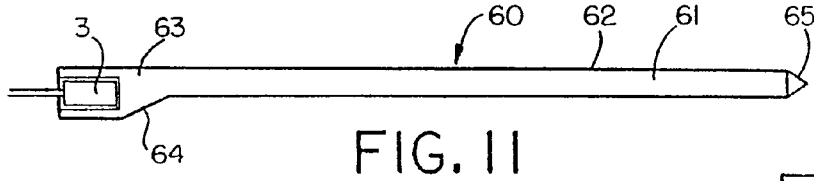
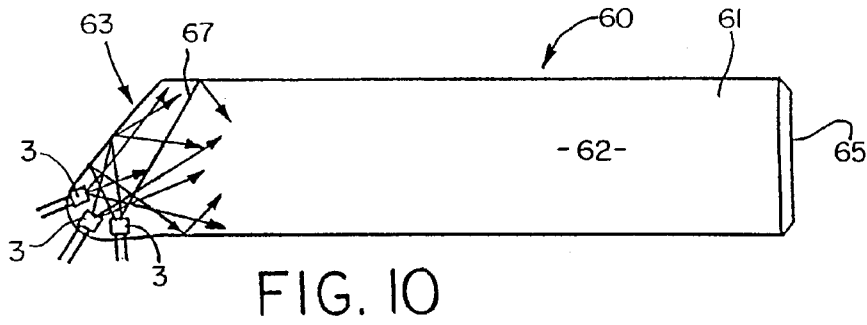
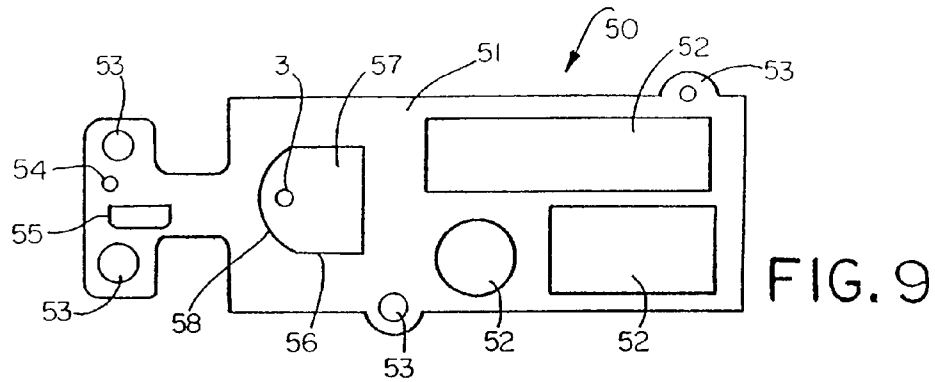
14 Claims, 14 Drawing Sheets



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