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(71) Applicant: KOPIN CORPORATION [US/US]; 125 North Drive, Westborough, MA 01581 (US).

(72) Inventors: EDWARD, Timothy, James; 378 Hacienda Drive, Scotts Valley, CA 95066 (US). CRANE, Mark; 40 Cherokee Lane, San Jose, CA 95127 (US). YOON, Cathy Ji Kyung; 6025 Scotts Valley Drive, Scotts Valley, CA 95066 (US). HOGAN, Timothy, Brandon; 1621 Lakeside Drive, Allen, Texas 75002 (US).

(74) Agents: PIERCE, N., Scott et al.; Hamilton, Brook, Smith & Reynolds, P.C., 530 Virginia Rd, P.O. Box 9133, Concord, MA 01742-9133 (US).

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(54) Title: VIEWER WITH DISPLAY OVERLAY

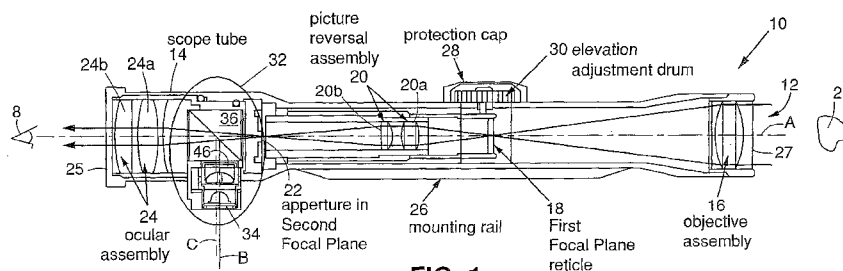


FIG. 1

(57) Abstract: A real-world viewer can include viewing optics positioned along a viewing optical axis for viewing a field of view of the real-world. An active display overlay unit can be optically coupled to the viewing optical axis of the viewing optics, for generating images and directing the images along the viewing optical axis of the viewing optics for simultaneous overlaid viewing of the images in the real-world scene as viewed in the field of view through the viewing optics. The active display overlay unit can be capable of providing full-color luminance of at least 1200 fL to the ocular of the host system with a luminance to power fL:mW ratio of at least 6:1 or greater or providing monochrome luminance from the active display overlay unit of at least 5000 fL to the ocular of the host system with a luminance to power fL:mW ratio of at least 15:1 or greater.