United States Patent [19]

Task et al.

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[54] **PORTABLE GLIDE SLOPE INDICATOR**

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[52] **U.S. Cl.** ..... **340/954**; 73/178 T; 244/114 R; 340/947; 340/955

[58] **Field of Search** ..... 340/947, 948, 952–956, 340/976, 950; 73/178 R, 178 T; 343/5 LS, 5 GC; 364/428, 434; 362/62; 244/114 R; 342/33, 34

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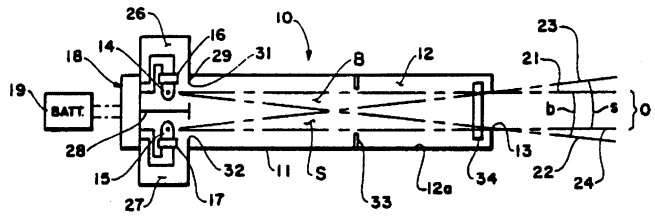
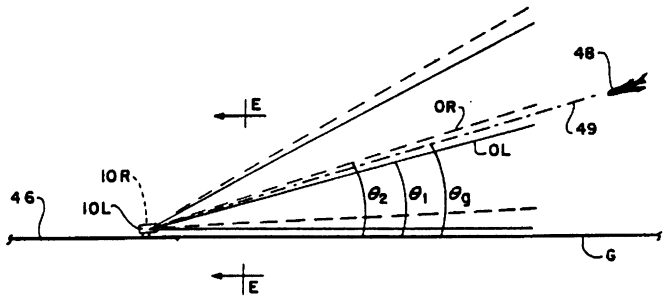
[57] **ABSTRACT**

An improved glide slope indicator system for facilitating aircraft landings under adverse lighting conditions on remote or austere landing sites is provided which comprises a pair of indicators deployable near ground level on each side of a runway, each indicator including a housing having an optical window and a pair of light sources mounted in predetermined spaced relationship to each other and to the optical window and connected to a power source and related circuitry to project a well defined first blinking and second steady light beam of predetermined angular divergence and overlap, one indicator disposed to project beams with an overlap elevated at a first angle relative to horizontal and the other indicator disposed to project beams with an overlap elevated at a second angle relative to horizontal different from the first, with a preselected glide path lying between the two overlaps. An infrared filter may be included in each indicator to project beams observable only with infrared sensitive viewing aids. The system may be battery powered for portability.

7 Claims, 5 Drawing Figures