



- [54] PACKAGE FOR AN INFRARED COMMUNICATIONS ADAPTER
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- [73] Assignee: **The Whitaker Corporation**, Wilmington, Del.
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- [51] Int. Cl.<sup>6</sup> ..... **H04B 10/00**
- [52] U.S. Cl. .... **359/152; 361/752**
- [58] Field of Search ..... 359/152, 159, 359/162, 163; 385/88, 90, 92, 93; 361/752, 756, 785, 796, 802; 345/156, 163, 169, 905; 463/36, 37, 38, 39; 273/148 H

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 Assistant Examiner—Rafael Bacares  
 Attorney, Agent, or Firm—Anton P. Ness

[57] ABSTRACT

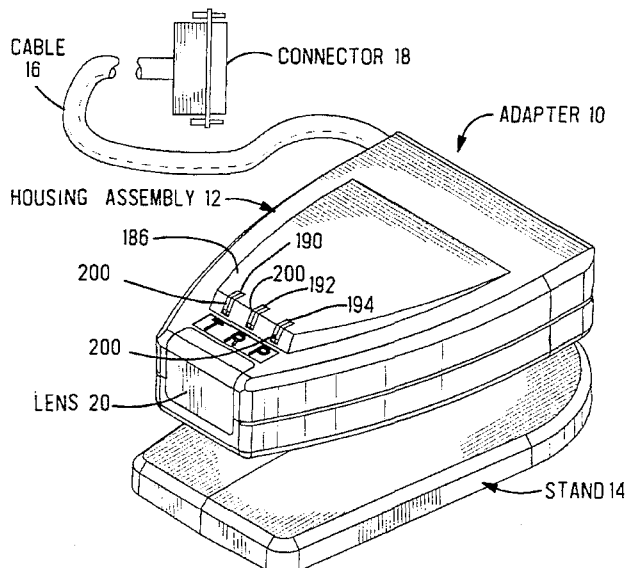
An infrared communications adapter (10) is provided having a two part housing (22, 24) that snaps together to form a housing assembly (12) having an interior cavity (30). The interior cavity contains a circuit board (32) having communications circuitry and components thereon, including light emitting diodes (42, 44, 46) for indicating operating status of the unit and a photodiode array (34) for receiving and transmitting infrared signals. The adapter (10) includes a light pipe (50) having three light conducting channels (204, 206, 208) that conduct light from the three light emitting diodes (42, 44, 46) to viewing facets (190, 192, 194) on the light pipe that extend through openings in the housing (12). A lens (20) is arranged in a front end of the housing directly in front of the photodiode array (34). An articulated coupling (60) removably couples a stand (14) to the housing assembly (12) and permits aiming of the unit for receiving and transmitting the infrared signals. A cable (16) is terminated at one end to the circuitry on the circuit board (32) and at the other end to a connector (18) that is connected to an input/output data port of a computer or other equipment.

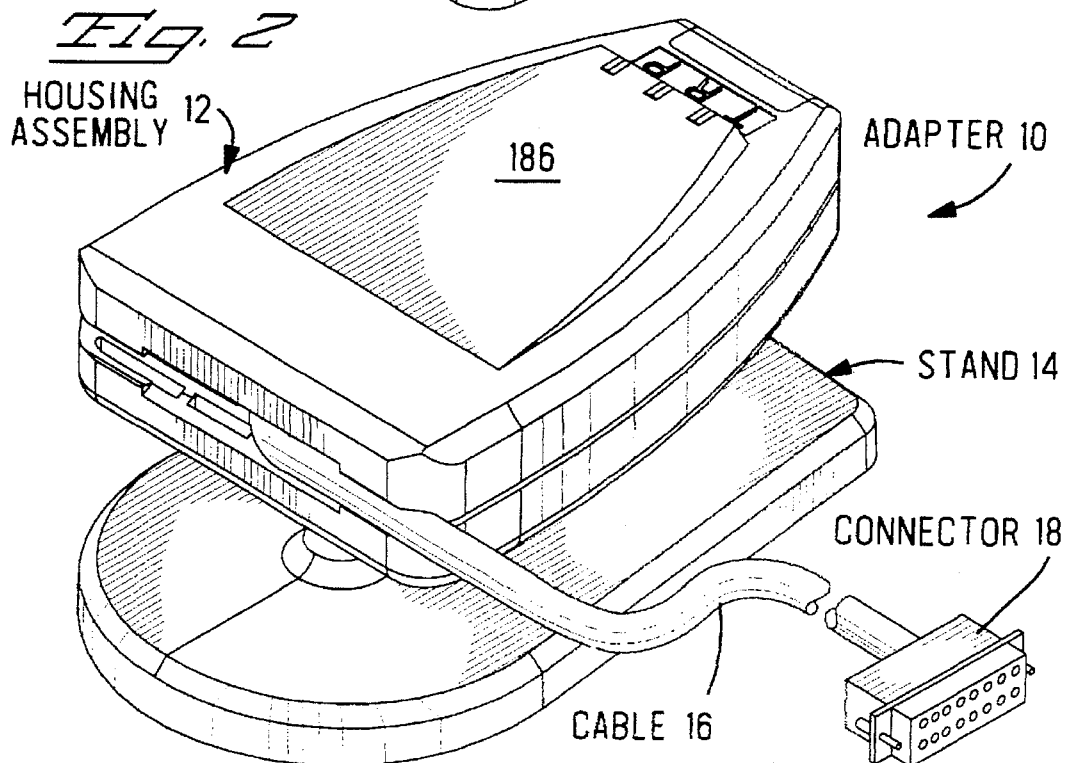
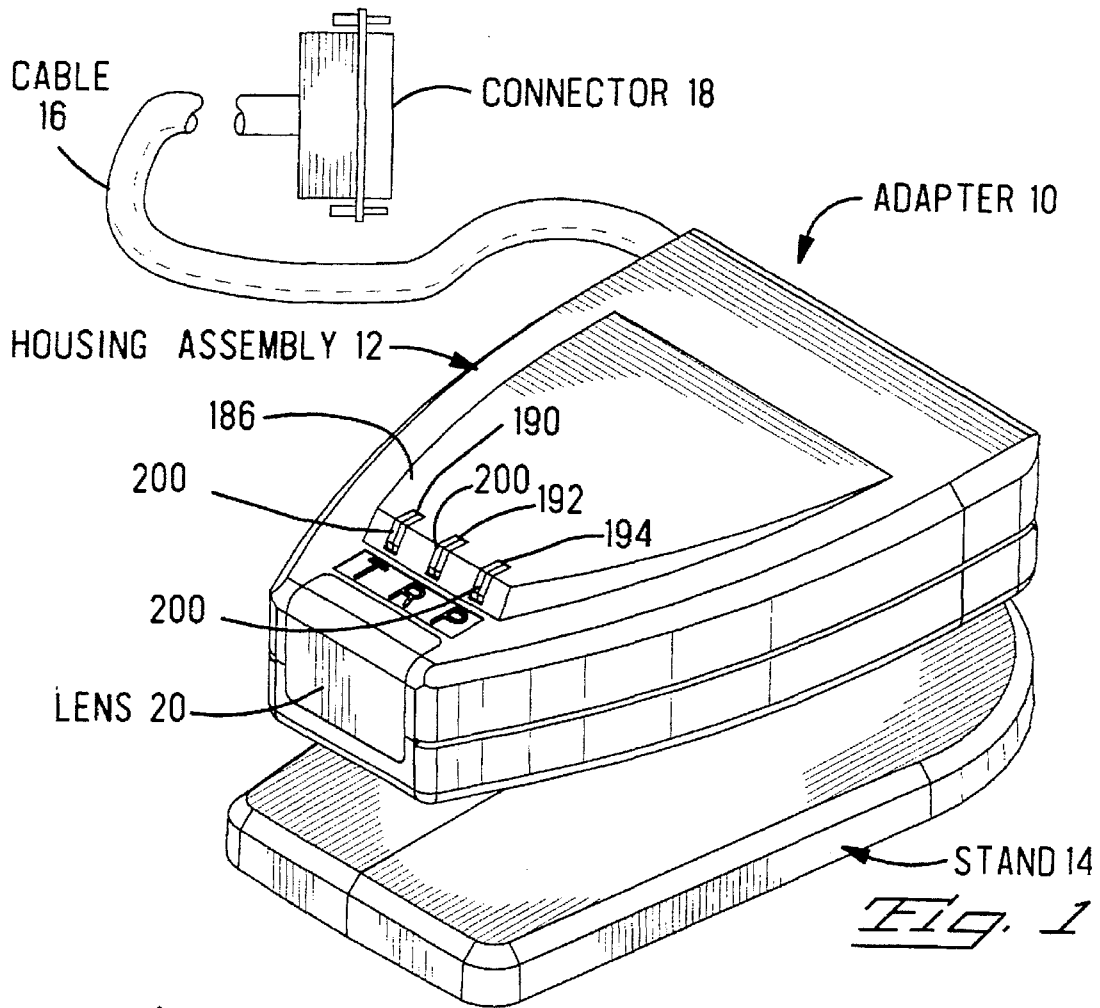
33 Claims, 10 Drawing Sheets

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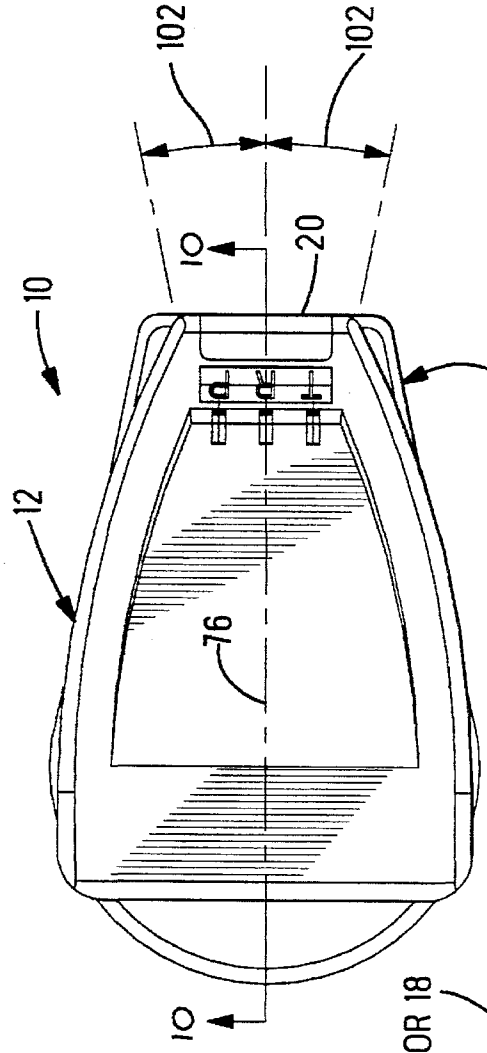


FIG. 2

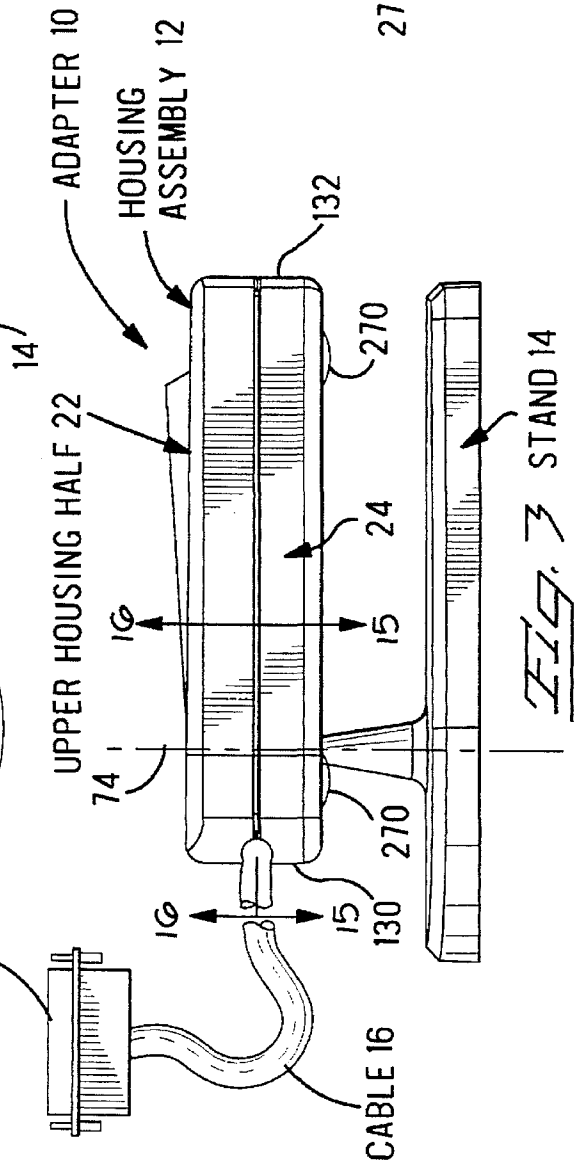


FIG. 3

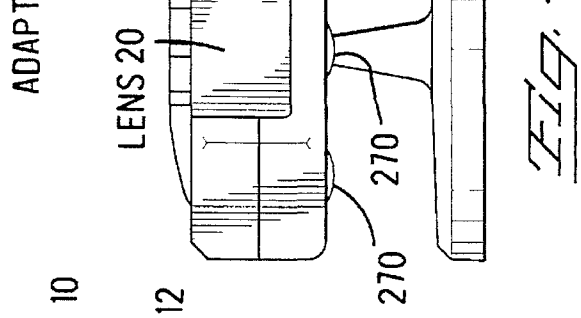


FIG. 4

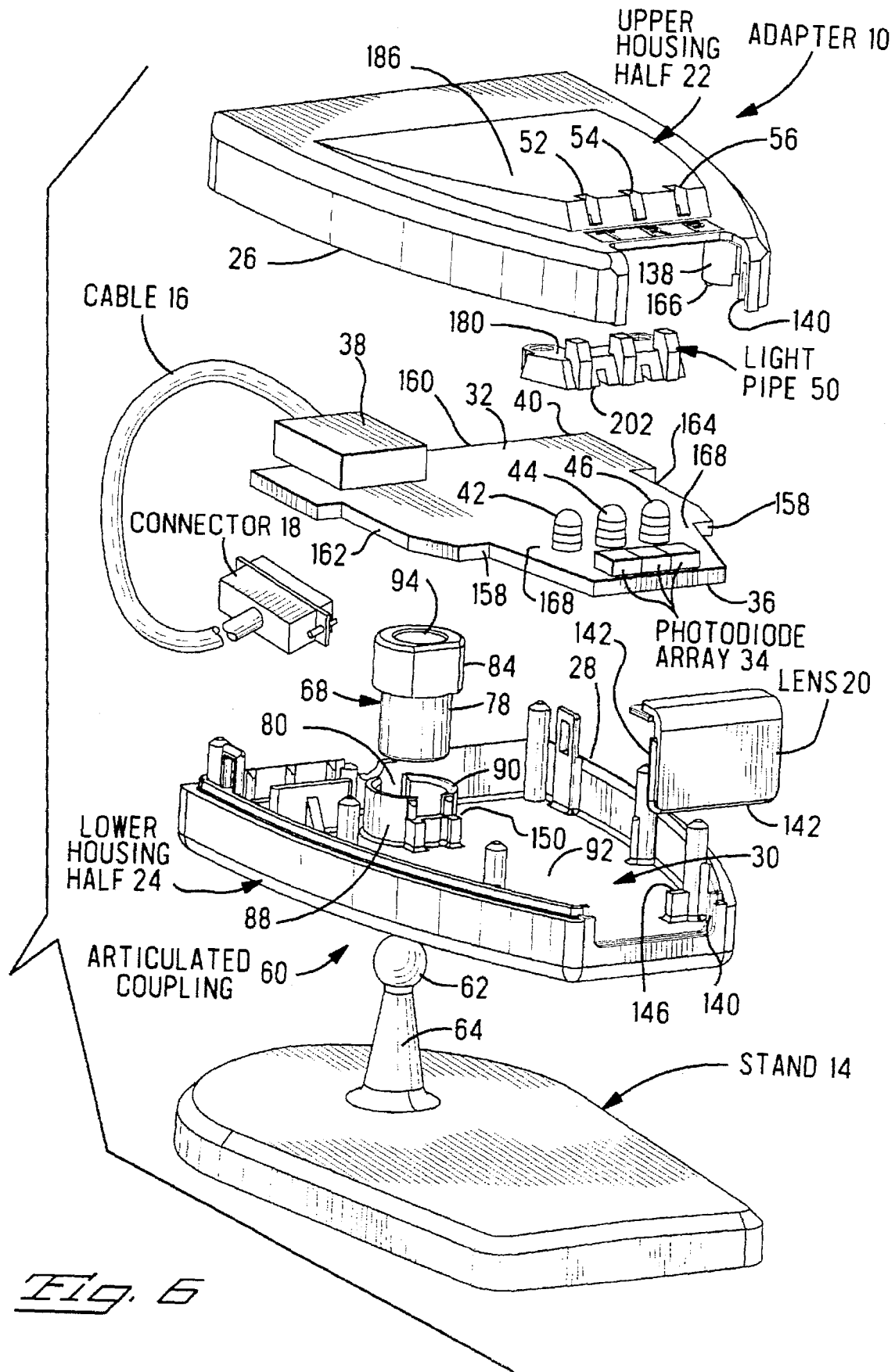


Fig. 6

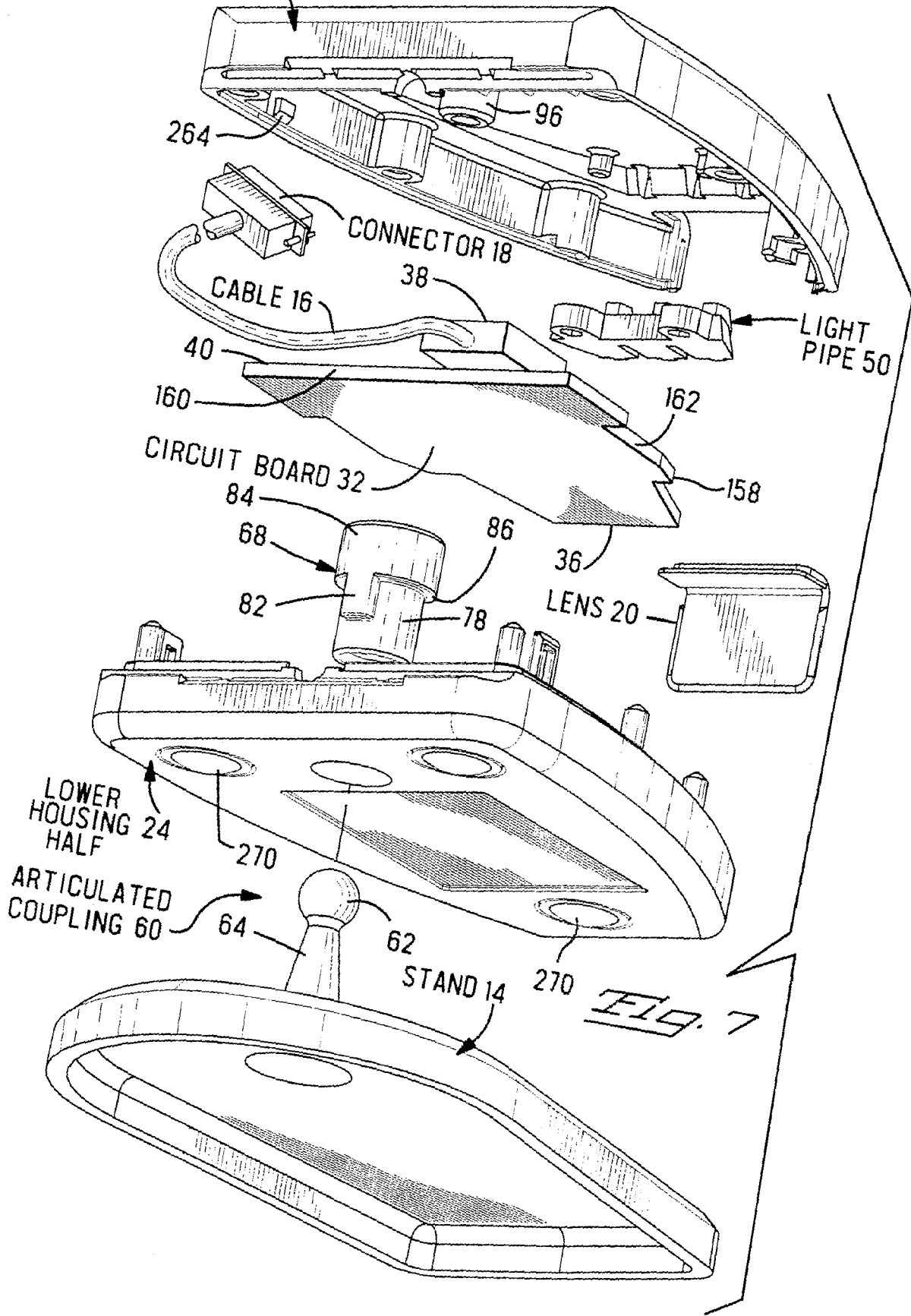


FIG. 7

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