

[54] REPLACEABLE CCD ARRAY AND METHOD OF ASSEMBLY

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[21] Appl. No.: 486,306

[22] Filed: Jun. 7, 1995

[51] Int. Cl.⁶ H04N 3/14

[52] U.S. Cl. 348/374; 348/340

[58] Field of Search 348/373, 374, 348/340, 335

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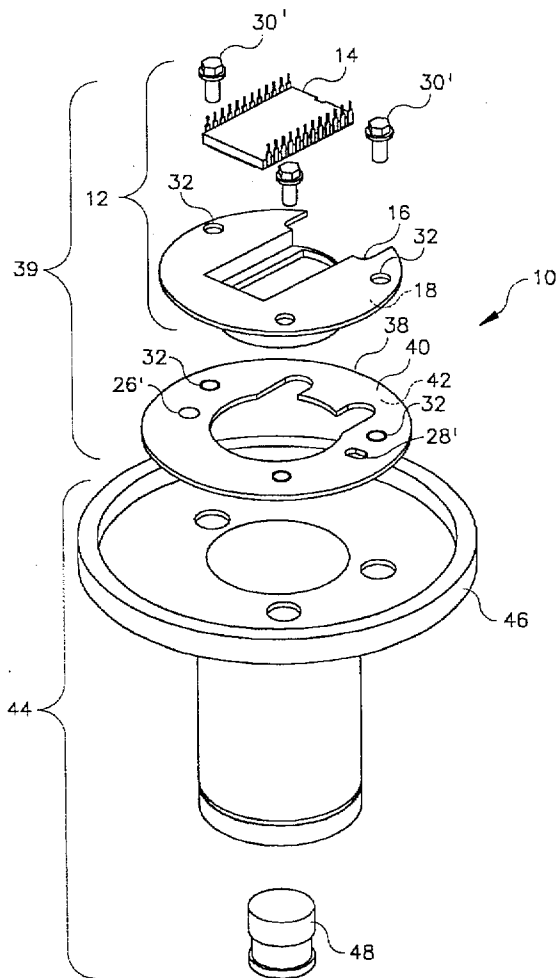
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[57] ABSTRACT

A CCD array assembly for use in a scanner, includes a CCD array optically aligned relative to a CCD array nest and affixed thereto to form a replaceable subassembly. The CCD array nest has an outwardly facing statically determinate or exactly constrained interface mounting surface. A carrier plate with the CCD array assembly removably attached thereto is optically aligned and affixed to a barrel frame and lens assembly. The subassembly is removably attachable to the carrier plate allowing replacement of a failed CCD array without additional alignment.

9 Claims, 4 Drawing Sheets



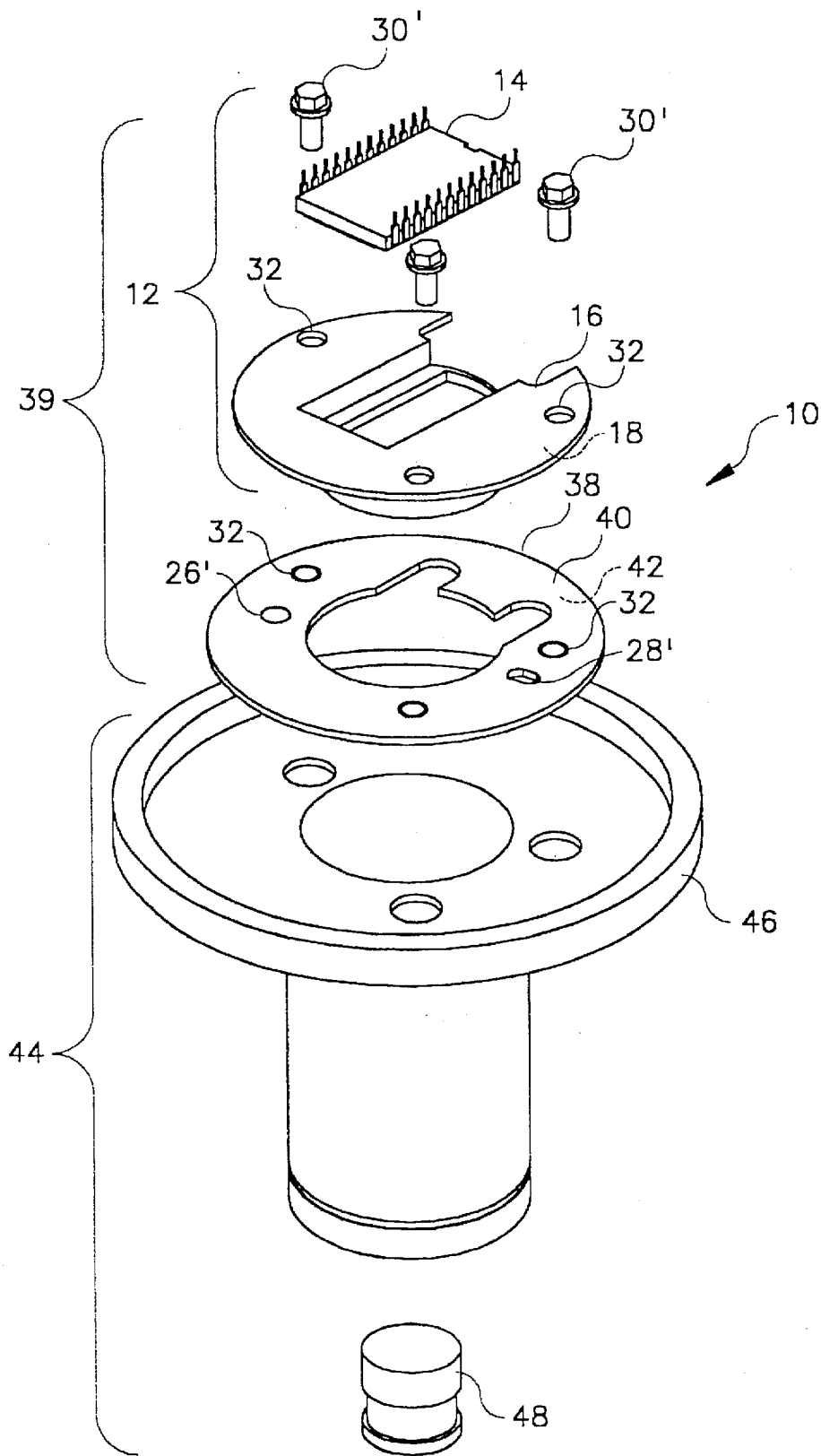


FIG. 1

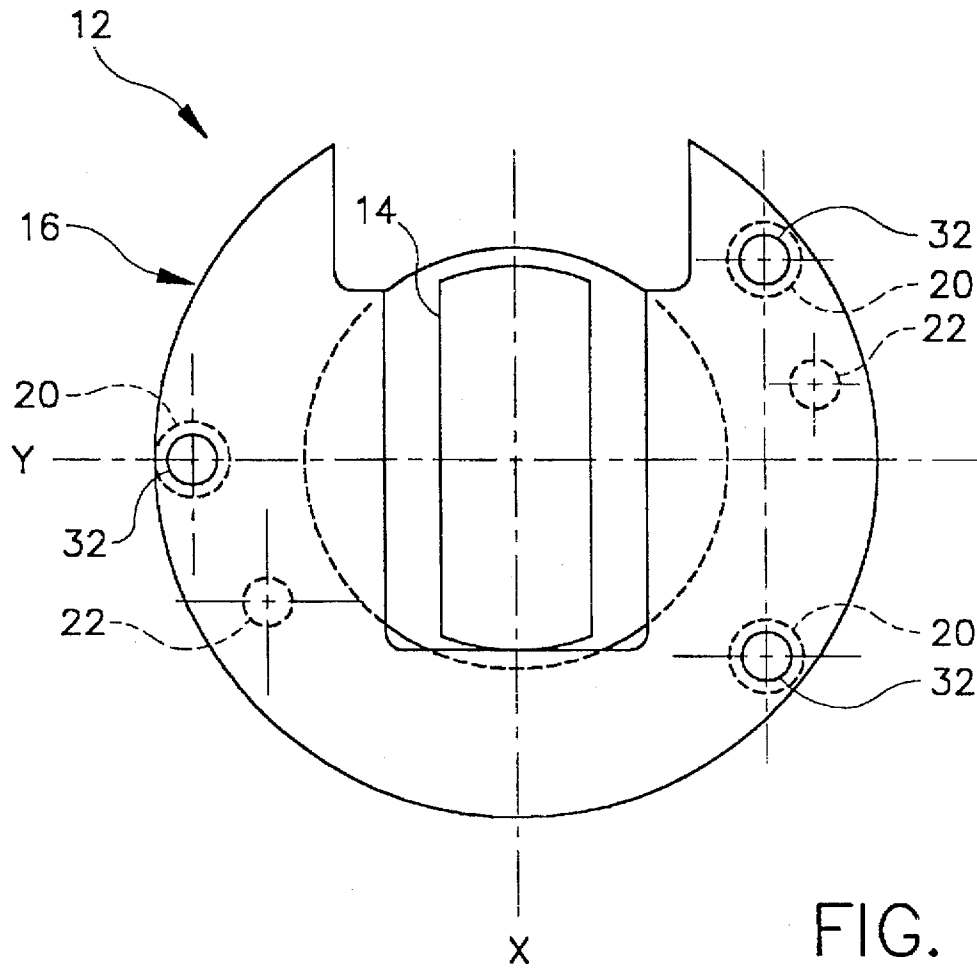


FIG. 2

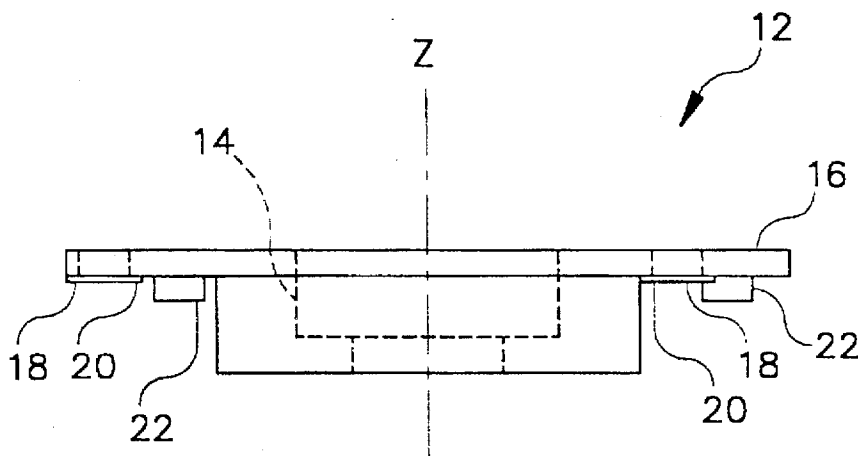


FIG. 3

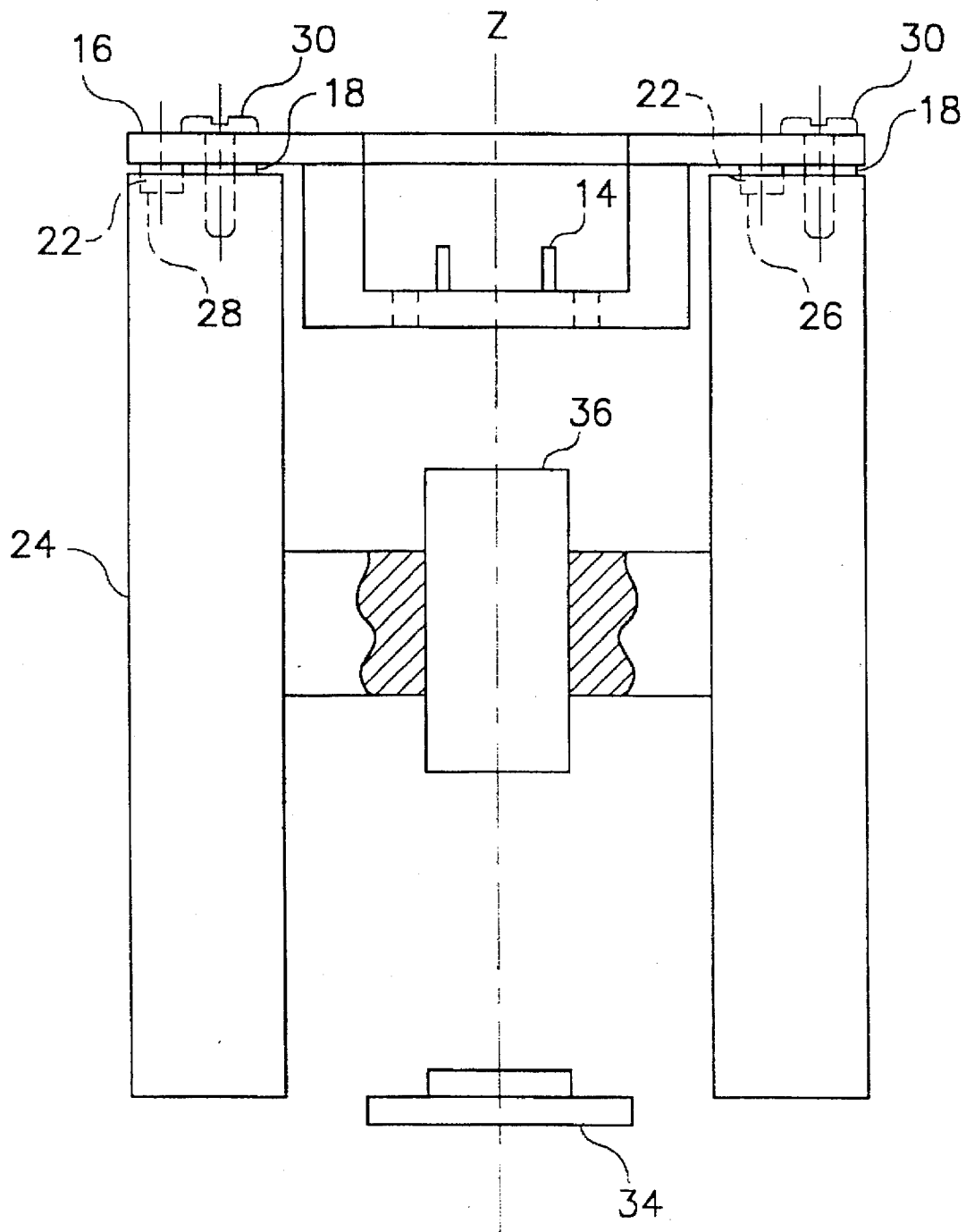


FIG. 4

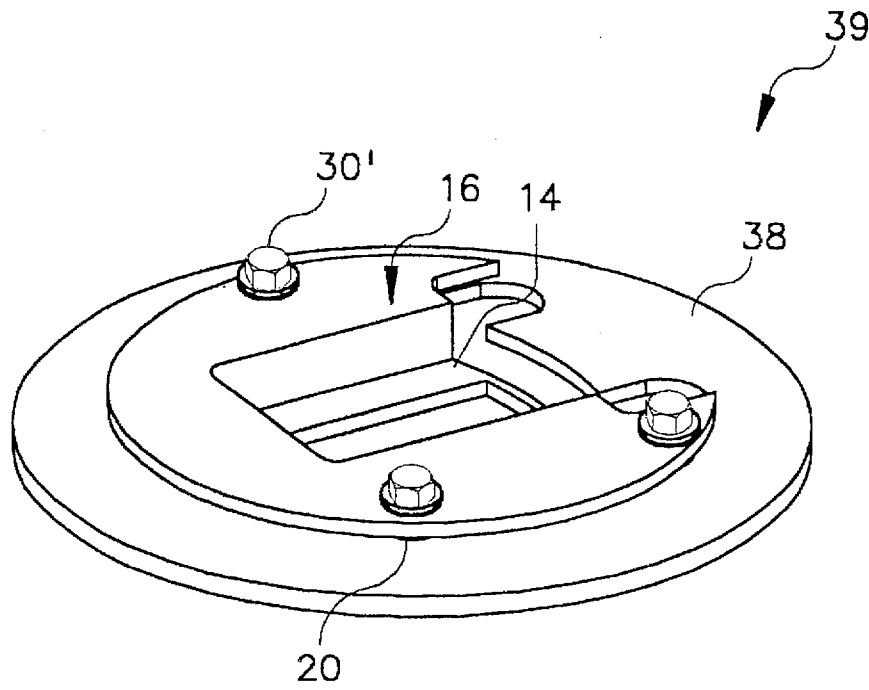


FIG. 5

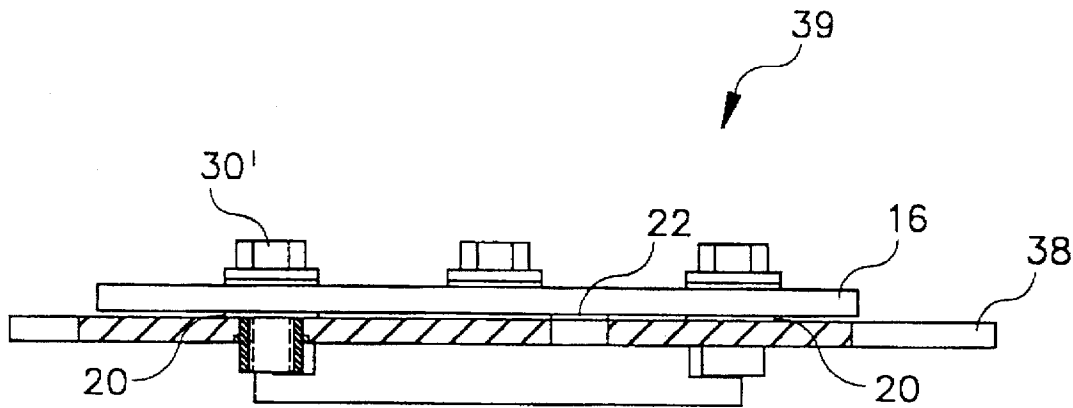


FIG. 6

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