

United States Patent [19]

Viskochil

[11] **Patent Number:** **5,672,927**

[45] **Date of Patent:** **Sep. 30, 1997**

[54] **MOTOR WITH OVERMOLD COIL SUPPORT**

[75] **Inventor:** **Stephen Viskochil**, Los Gatos, Calif.

[73] **Assignee:** **Quantum Corporation**, Milpitas, Calif.

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[22] **Filed:** **Jun. 15, 1995**

[51] **Int. Cl.⁶** **H02K 1/00; H02K 11/00; H02K 1/12**

[52] **U.S. Cl.** **310/194; 310/71; 310/254**

[58] **Field of Search** **310/194, 51, 71, 310/89, 254, 67 R; 360/99.08**

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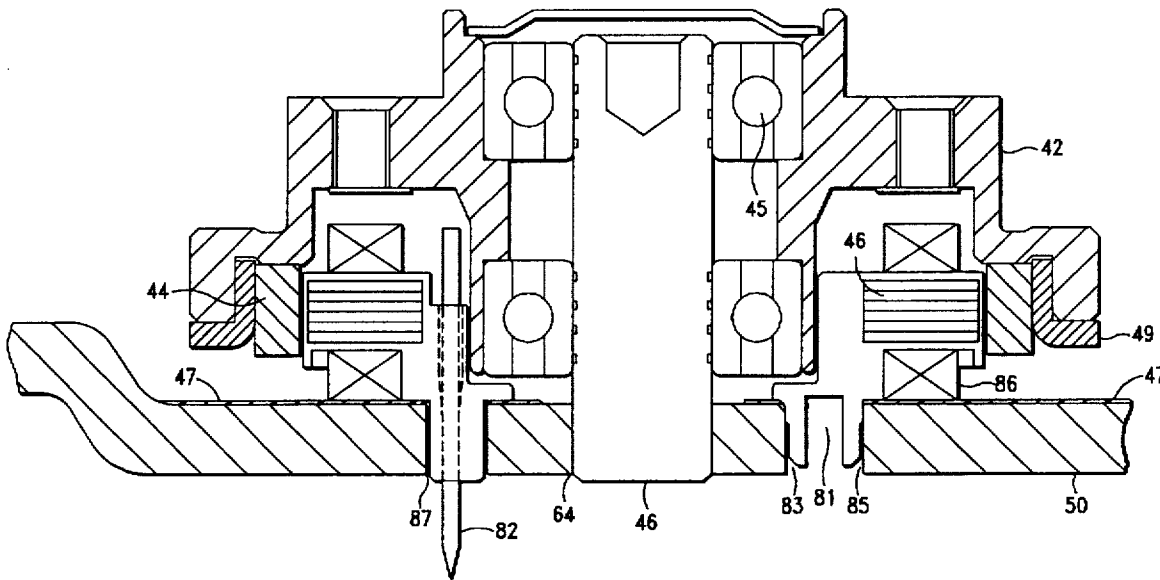
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[57] **ABSTRACT**

A motor assembly integrates a motor mounting structure and electrical connection parts achieving reduced motor component count and assembly cost. The motor assembly includes a mounting structure integrally formed into a motor coil support with plastic overmold. A plurality of connector pins are molded into the coil support for electrically coupling the motor to a printed circuit board (PCB).

10 Claims, 7 Drawing Sheets



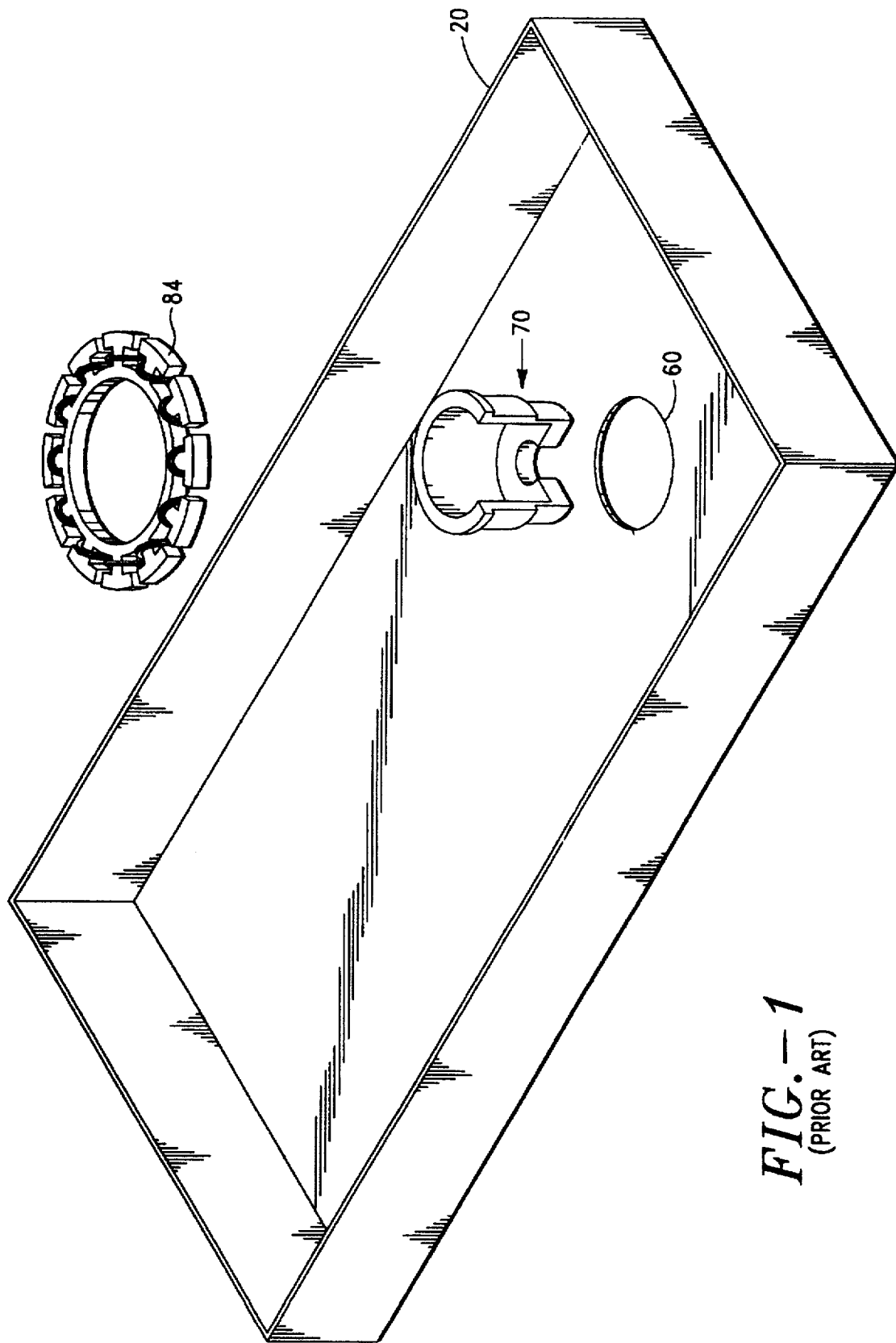


FIG. 1
(PRIOR ART)

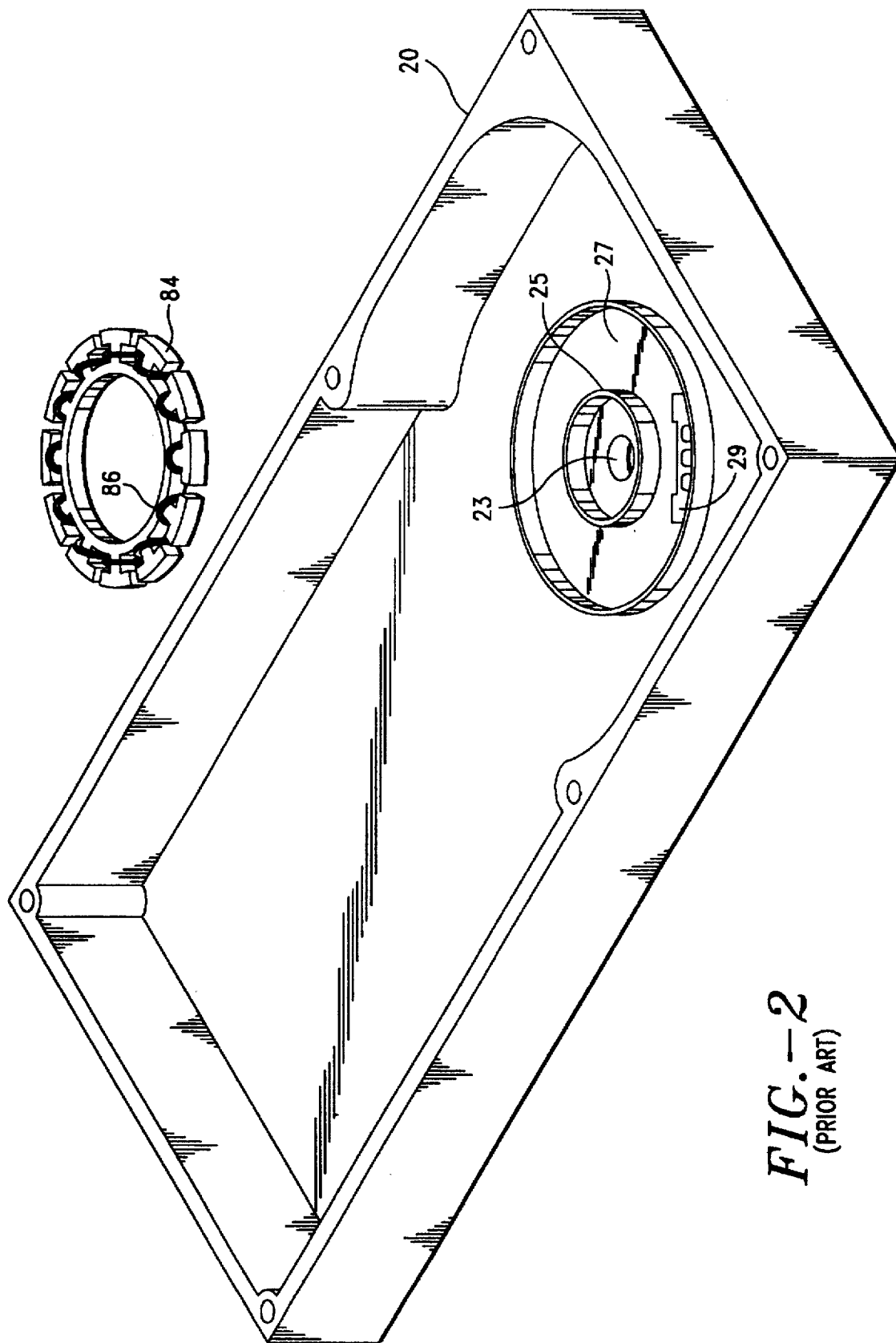


FIG. -2
(PRIOR ART)

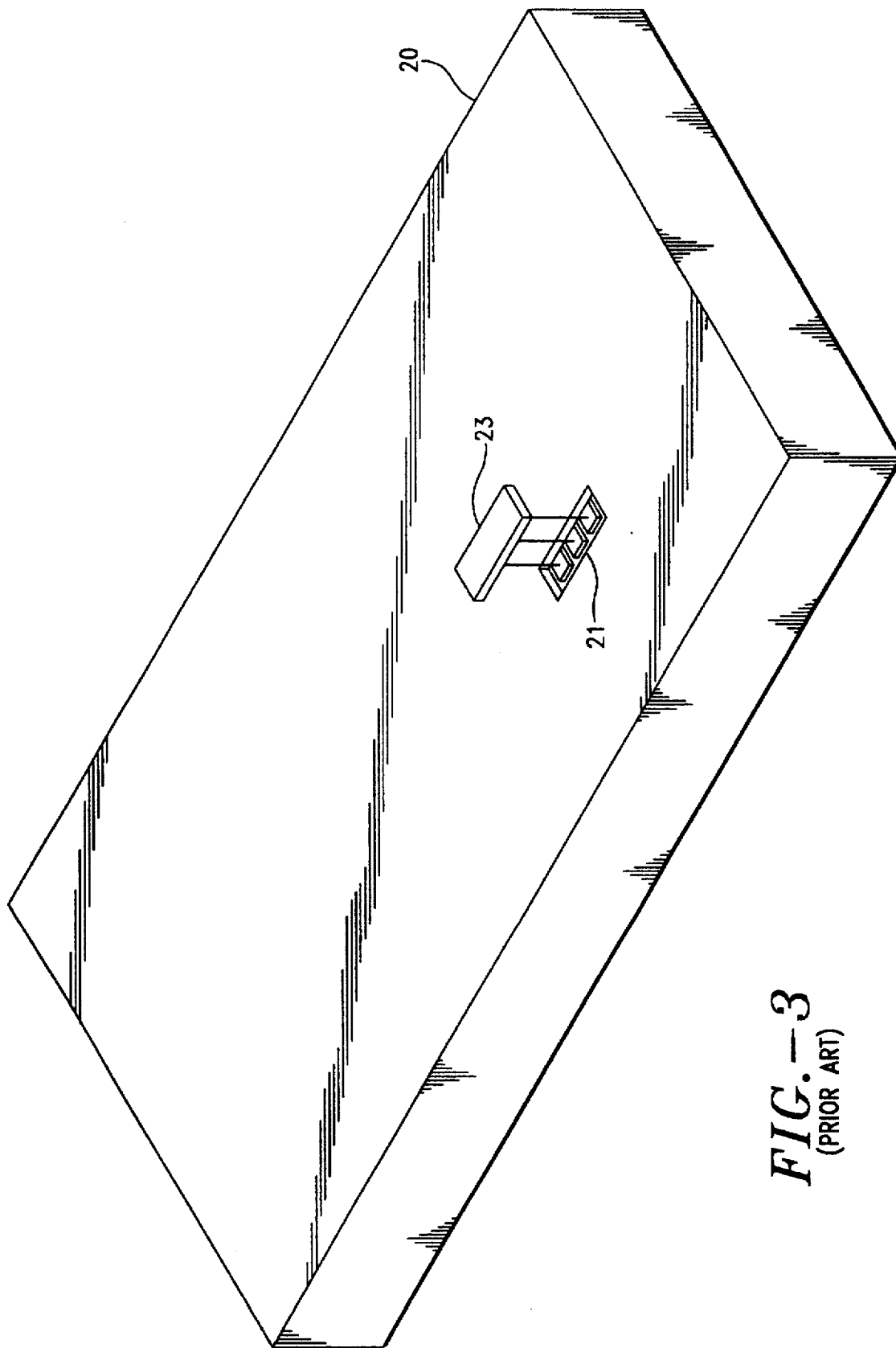


FIG. -3
(PRIOR ART)

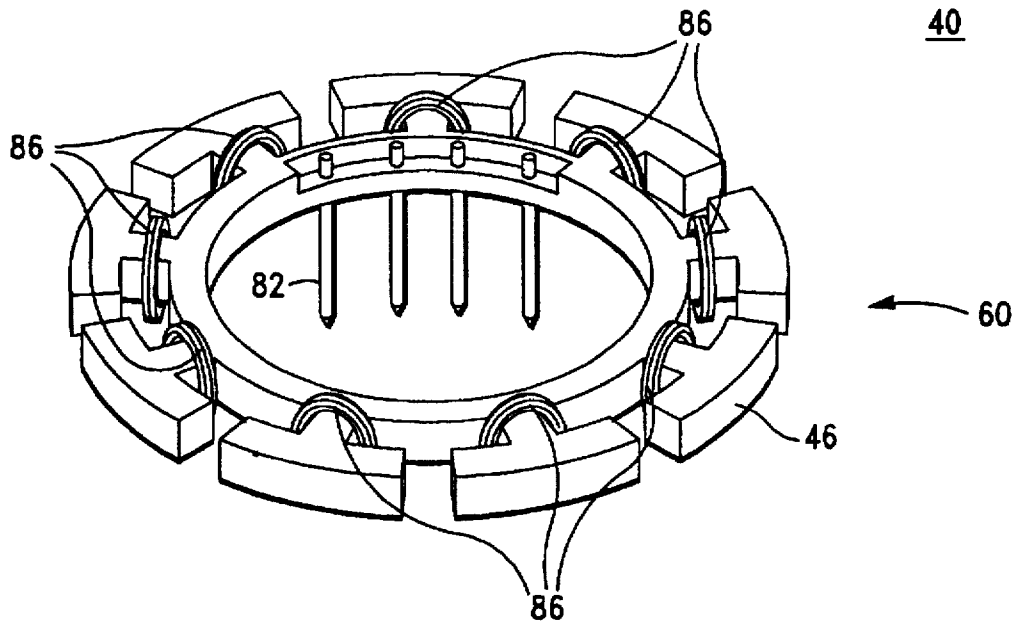
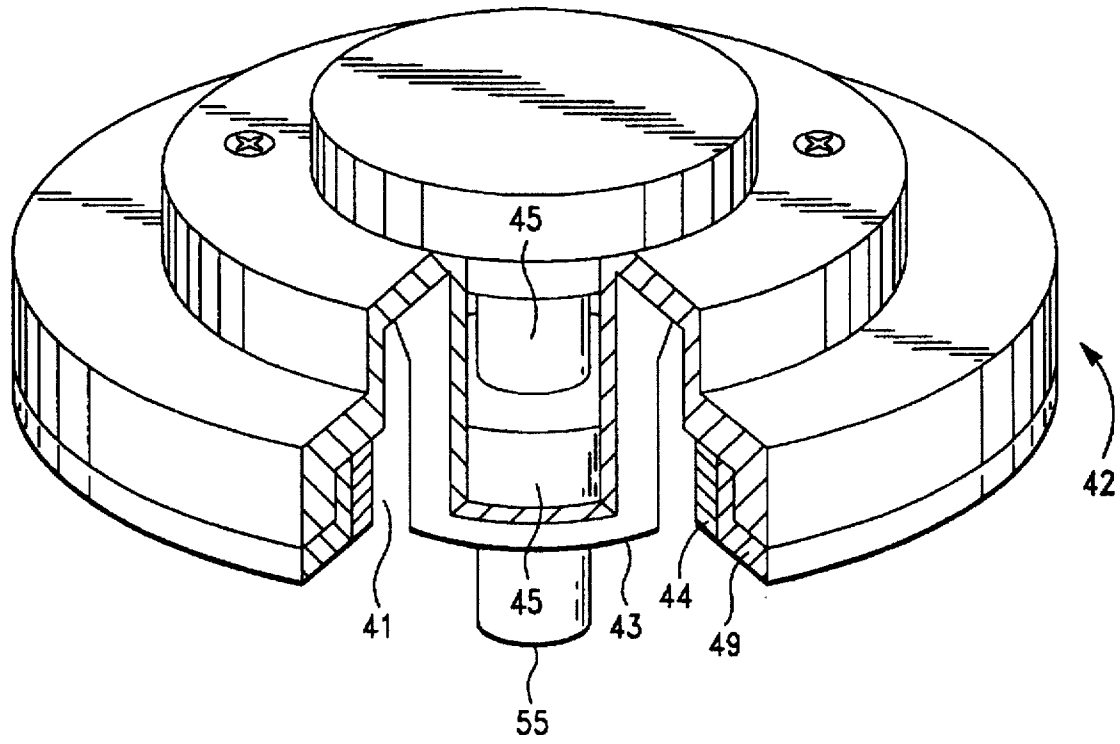


FIG.-4

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