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# United States Patent [19]

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Minowa et al.

[45] Date of Patent: **\*\* Dec. 20, 1994**

[54] **COMBINED TRANSMITTER AND RECEIVER FOR SATELLITE COMMUNICATION SYSTEMS**

D. 308,203 5/1990 Kosugi et al. .... D14/231 X  
4,574,289 3/1986 Henderson ..... 343/786  
4,901,369 2/1990 Momose et al. .... 343/786 X

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[73] Assignee: **NEC Corporation**, Tokyo, Japan

[\*\*] Term: **14 Years**

[57] **CLAIM**

[21] Appl. No.: **666,537**

The ornamental design for a combined transmitter and receiver for satellite communication systems, as shown.

[22] Filed: **Mar. 8, 1991**

[30] **Foreign Application Priority Data**

**DESCRIPTION**

Sep. 11, 1990 [JP] Japan ..... 2-30561

[52] U.S. Cl. .... **D14/231; D14/230**

[58] Field of Search ..... 343/786; D14/230-239; H01Q 13/000, 13/020

FIG. 1 is a front, top and left side perspective view of a combined transmitter and receiver for satellite communication systems showing our new design;

FIG. 2 is a rear, top and right side perspective view thereof;

FIG. 3 is a right side elevational view thereof;

FIG. 4 is a top plan view thereof;

FIG. 5 is a left side elevational view thereof;

FIG. 6 is a front elevational view thereof;

FIG. 7 is a bottom plan view thereof; and,

FIG. 8 is a rear elevational view thereof.

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

D. 212,849 12/1986 Miller ..... D14/230

D. 304,945 12/1989 Kosugi et al. .... D14/231

D. 304,946 12/1989 Ogawa et al. .... D14/231

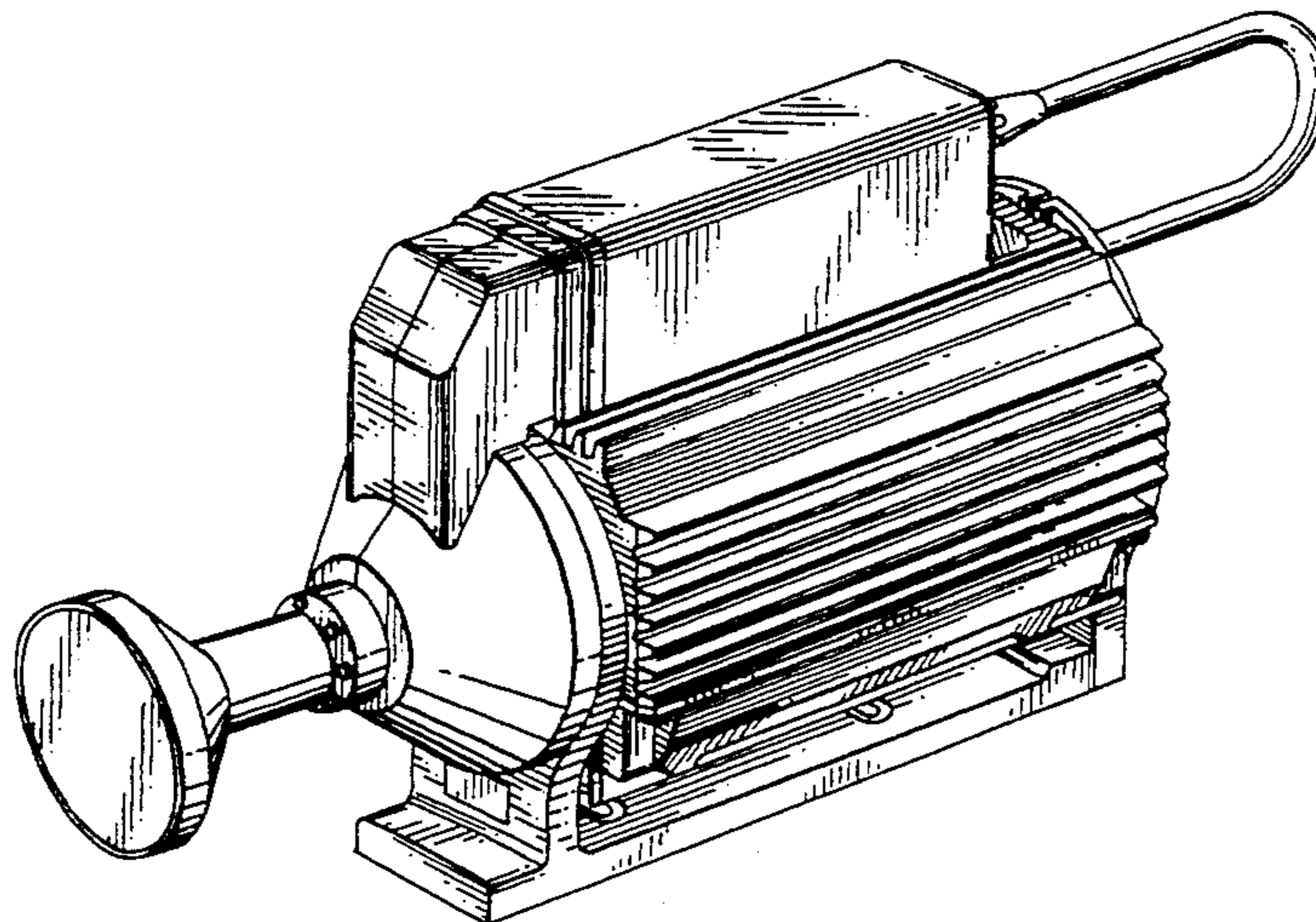
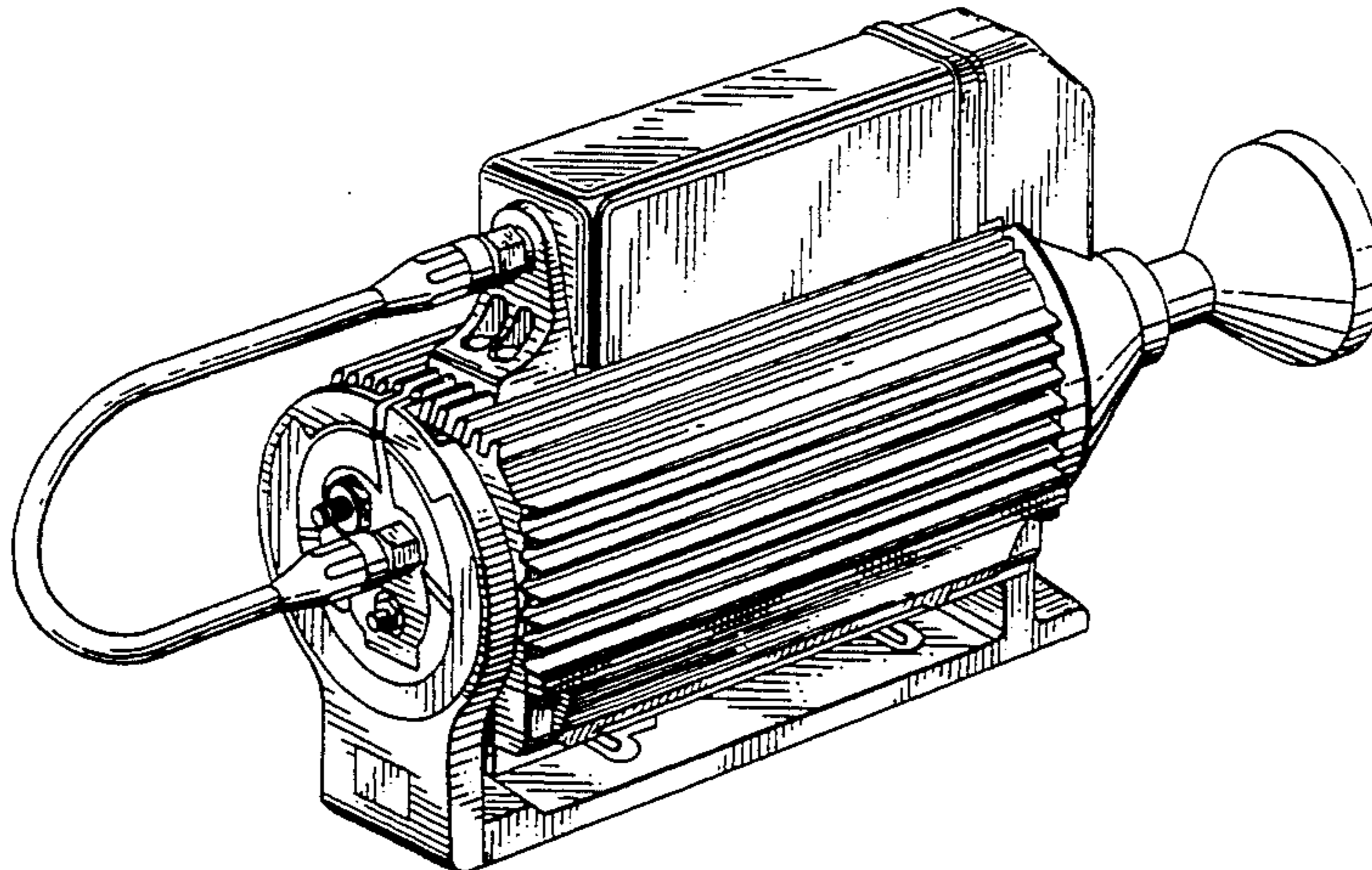


FIG. 1

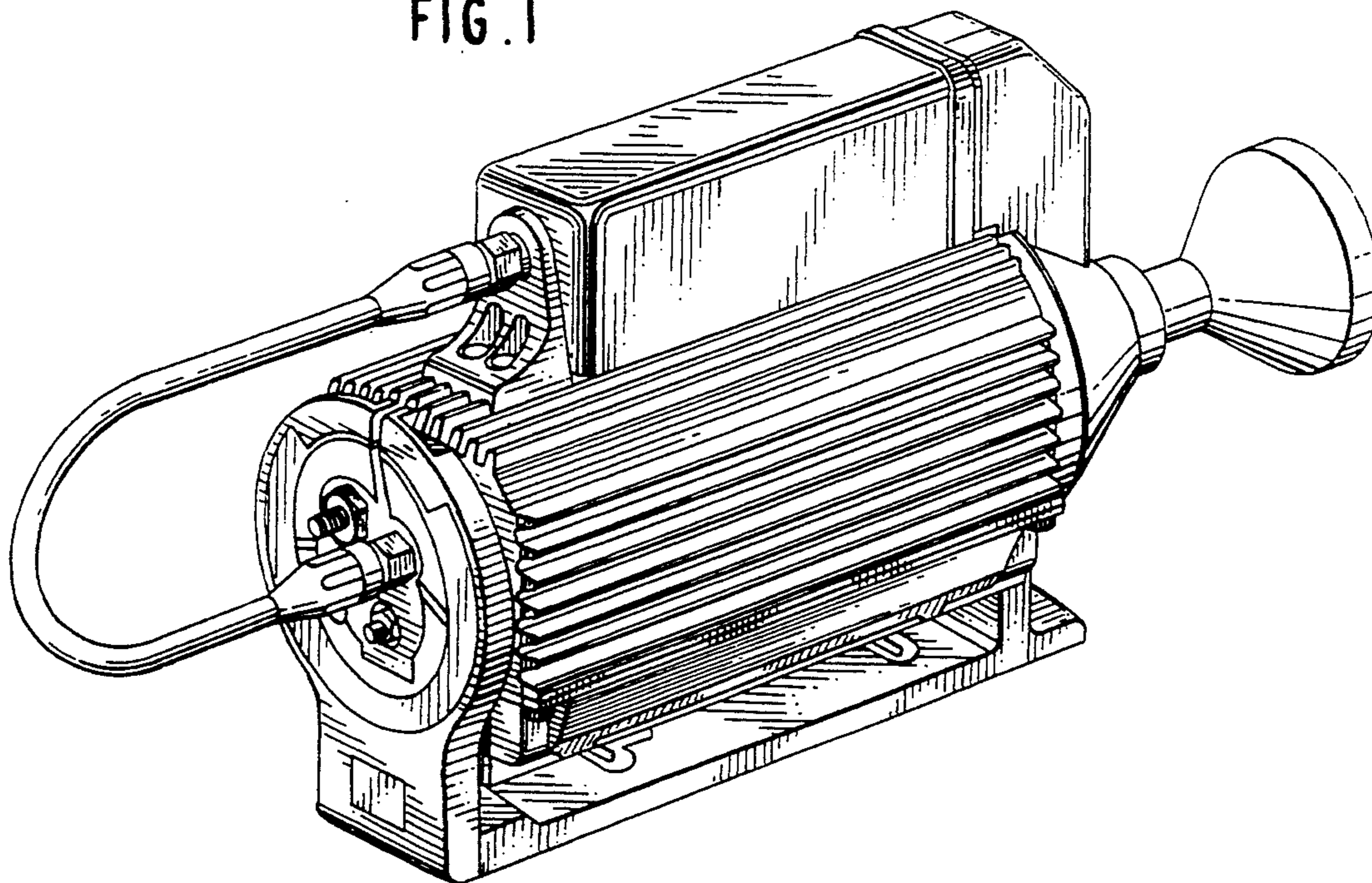


FIG. 2

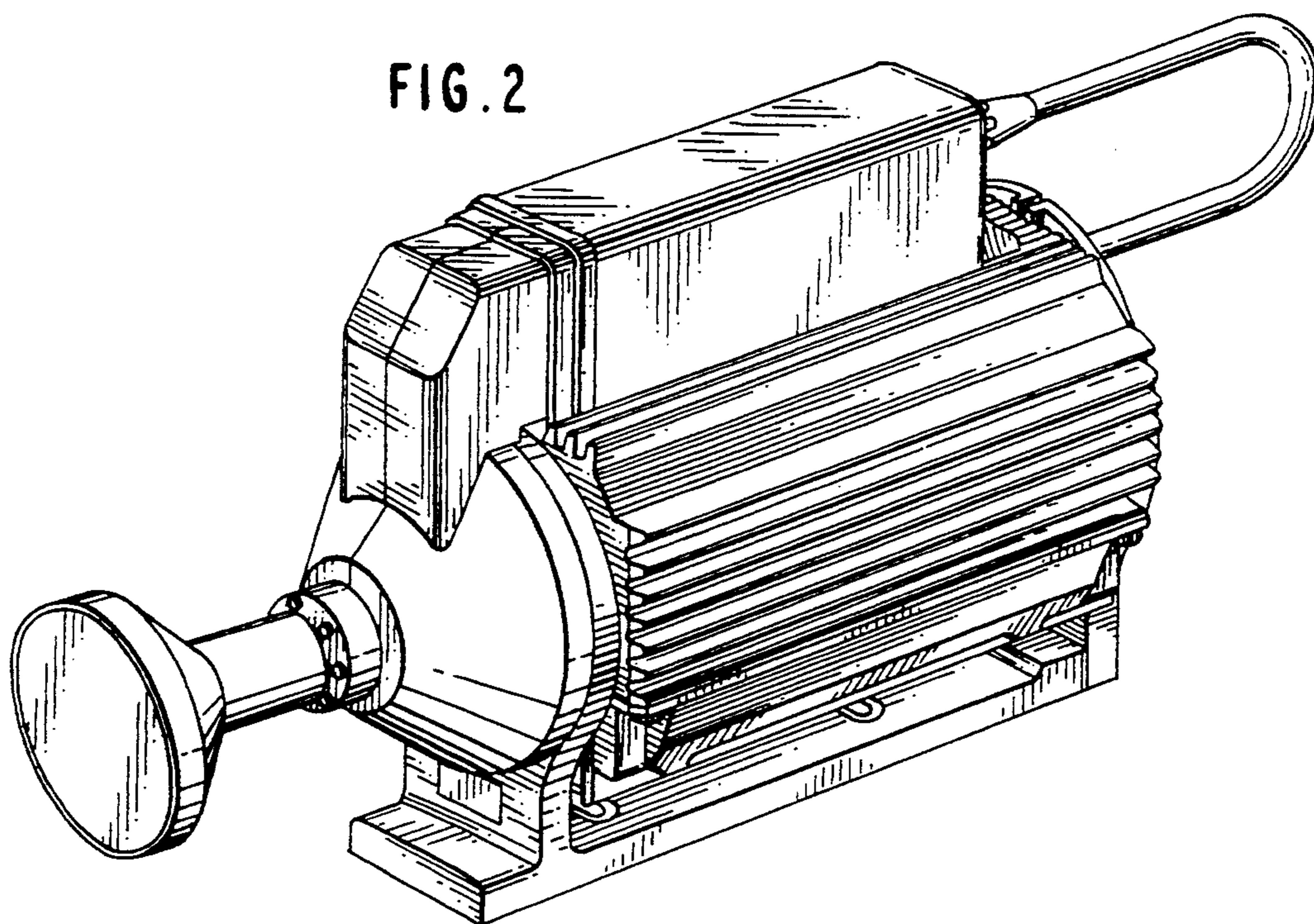


FIG. 3

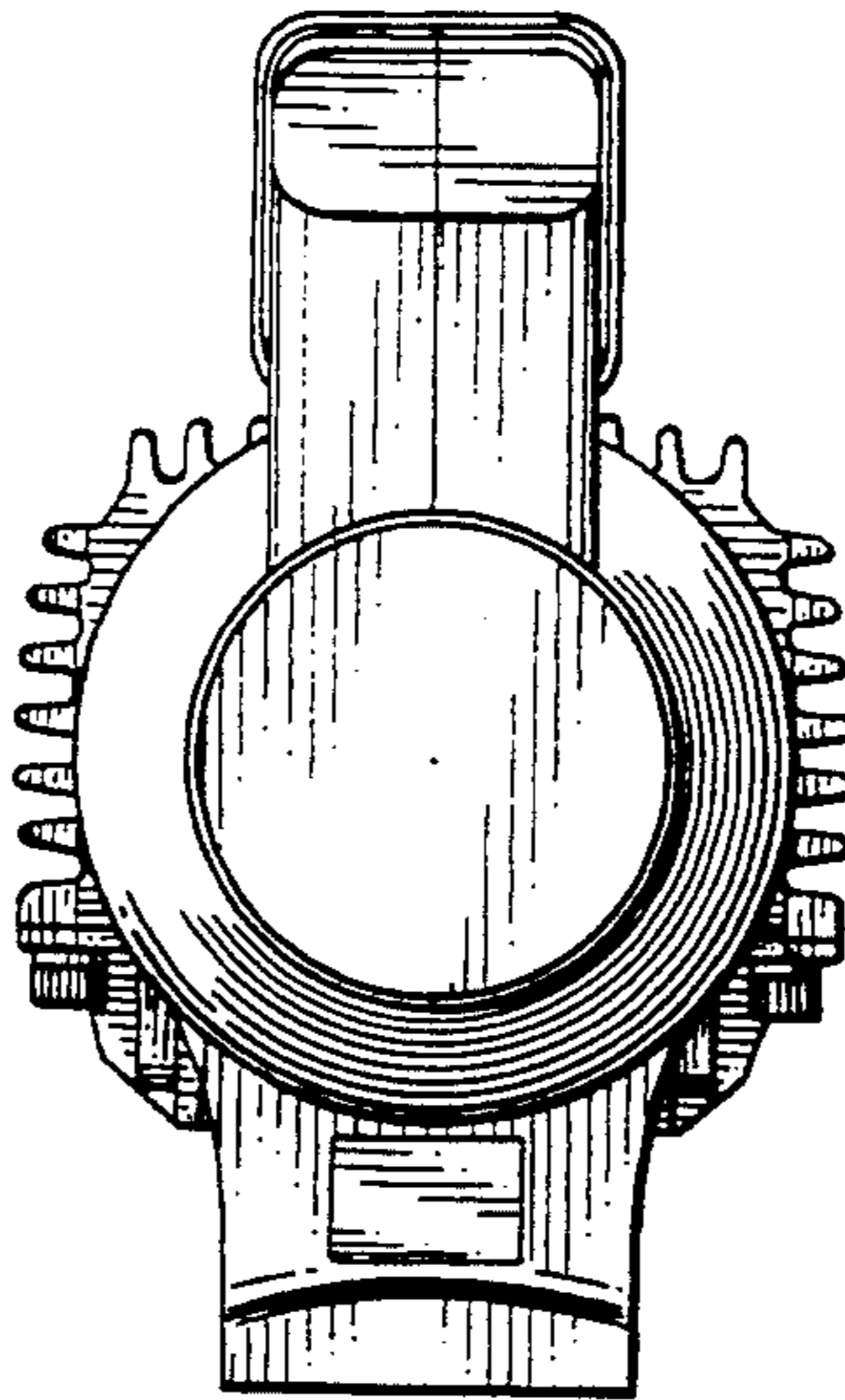


FIG. 4

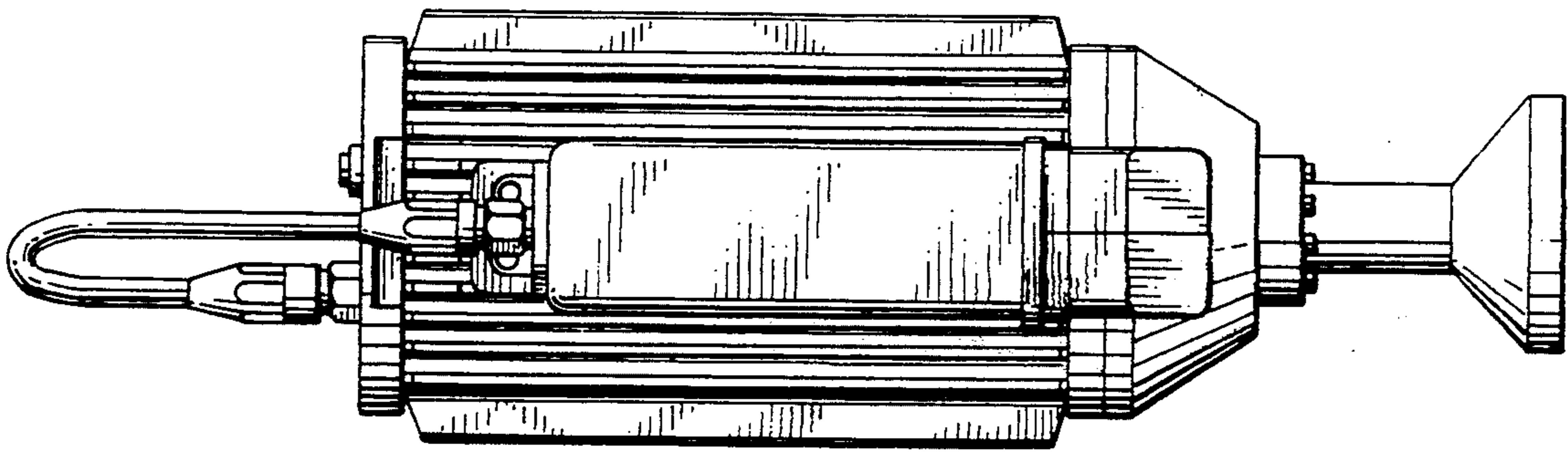


FIG. 5

