



US00D609989S

(12) **United States Design Patent**  
**Torigai**

(10) **Patent No.:** **US D609,989 S**

(45) **Date of Patent:** **\*\* Feb. 16, 2010**

(54) **BOLT OR NUT TIGHTENING DEVICE**

(57) **CLAIM**

(75) Inventor: **Yukio Torigai, Sakai (JP)**

The ornamental design for bolt or nut tightening device, substantially as shown and described.

(73) Assignee: **Maeda Metal Industries, Ltd., Osaka (JP)**

**DESCRIPTION**

(\*\*) Term: **14 Years**

FIG. 1 is a front elevational view of a bolt or nut tightening device of the present design;

(21) Appl. No.: **29/315,375**

FIG. 2 is a rear elevational view thereof;

(22) Filed: **Jun. 19, 2009**

FIG. 3 is a left side view thereof;

(30) **Foreign Application Priority Data**

FIG. 4 is a right side view thereof;

Jan. 9, 2009 (JP) ..... 2009-000319

FIG. 5 is a top plan view thereof;

(51) **LOC (9) Cl.** ..... **08-05**

FIG. 6 is a bottom plan view thereof;

(52) **U.S. Cl.** ..... **D8/69**

FIG. 7 is a sectional view taken on line 7—7 of FIG. 1

(58) **Field of Classification Search** ..... D8/61—70;

FIG. 8 is a sectional view taken on line 8—8 of FIG. 1

81/57.11, 429, 454—456, 469, 489; 173/13, 173/104, 114, 167—171, 178, 201, 211, 213, 173/217, 198; 227/8, 113, 114, 120, 130, 227/136, 142; 310/50; 408/20, 124, 125, 408/234, 241 R, 58, 67; 451/358

FIG. 9 is a sectional view taken on line 9—9 of FIG. 1

FIG. 10 is a sectional view taken on line 10—10 of FIG. 1

FIG. 11 is a sectional view taken on line 11—11 of FIG. 1

FIG. 12 is a sectional view taken on line 12—12 of FIG. 1

FIG. 13 is a first perspective view thereof, as seen from diagonally left upward of a socket attached side;

See application file for complete search history.

FIG. 14 is a second perspective view thereof, as seen from diagonally right upward of the socket attached side;

FIG. 15 is a third perspective view thereof, as seen from diagonally left downward of the socket attached side;

FIG. 16 is a fourth perspective view thereof, as seen from diagonally right downward of the socket attached side;

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,953,965 A \* 9/1999 Kaneyama et al. .... 81/55

6,053,080 A \* 4/2000 Kaneyama et al. .... 81/469

D569,207 S \* 5/2008 Torigai et al. .... D8/69

D586,640 S \* 2/2009 Torigai et al. .... D8/69

2002/0162421 A1 \* 11/2002 Galat ..... 81/57.13

FIG. 17 is a fifth perspective view thereof, as seen from diagonally left upward of a handle side;

FIG. 18 is a sixth perspective view thereof, as seen from diagonally right upward of the handle side;

FIG. 19 is a seventh perspective view thereof, as seen from diagonally left downward of the handle side; and,

FIG. 20 is a eighth perspective view thereof, as seen from diagonally right downward of the handle side.

\* cited by examiner

The broken lines are shown in the views for illustrative purposes only and form no part of the claimed invention.

*Primary Examiner*—Antoine D Davis

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**1 Claim, 8 Drawing Sheets**

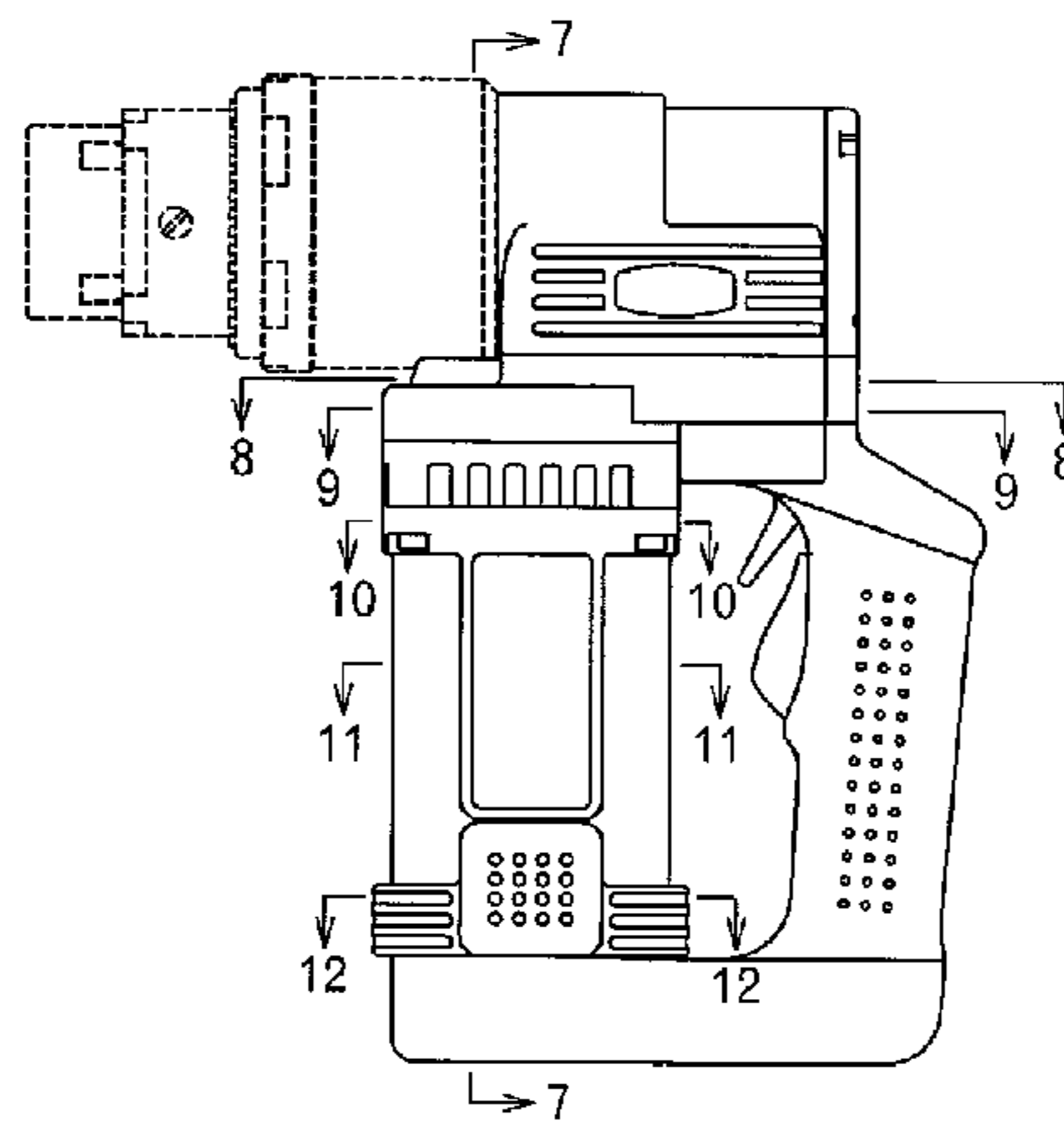


FIG. 1

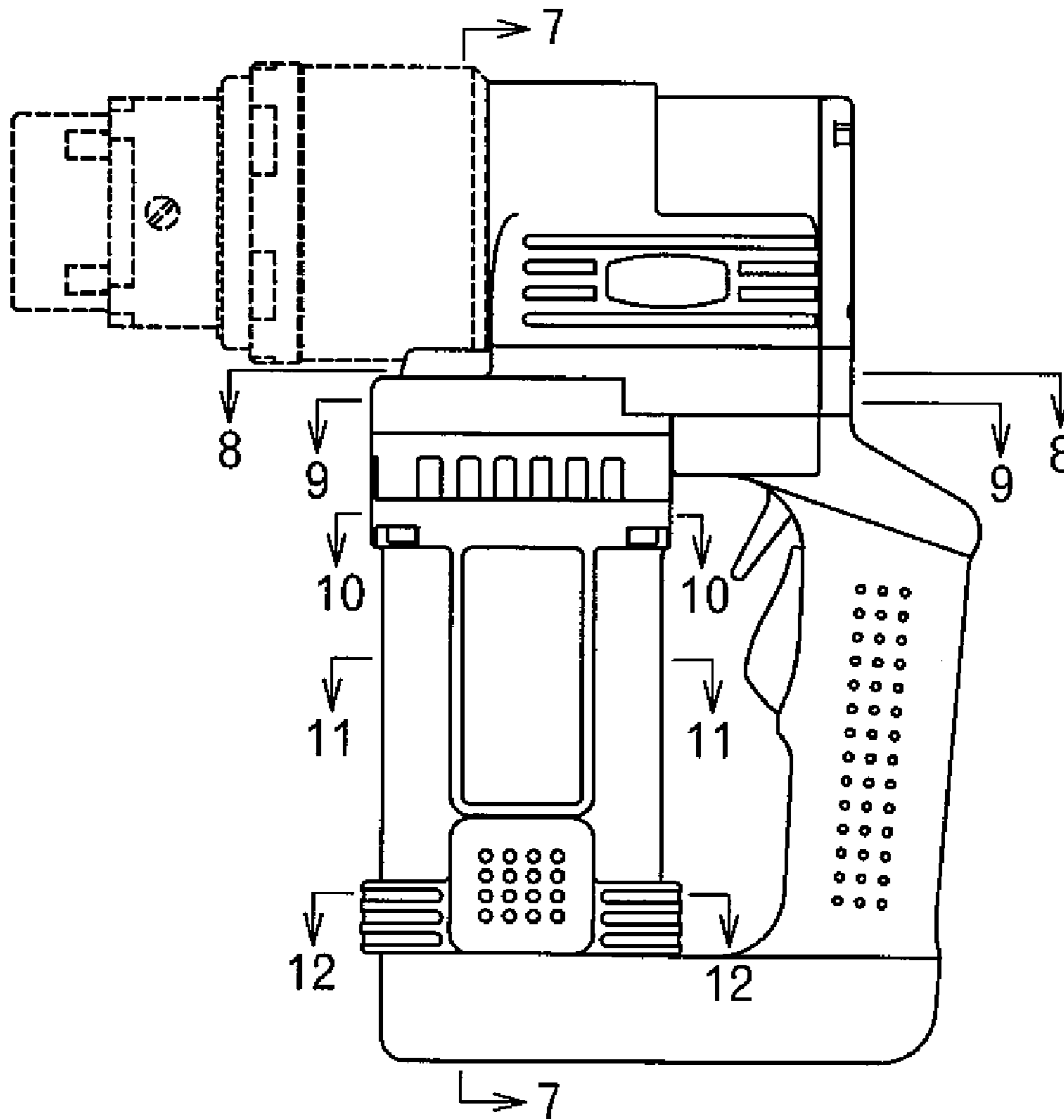


FIG. 2

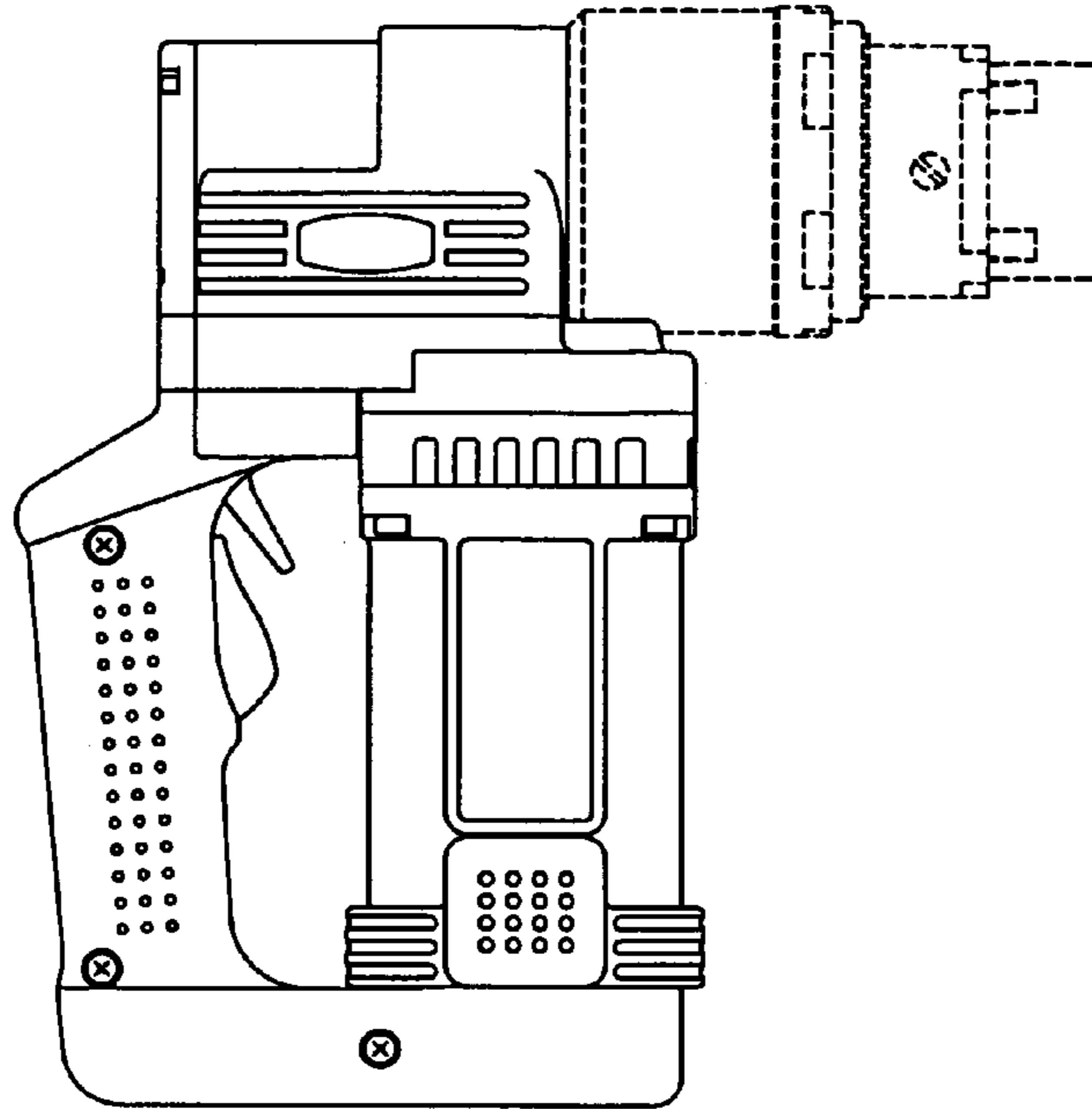


FIG. 3

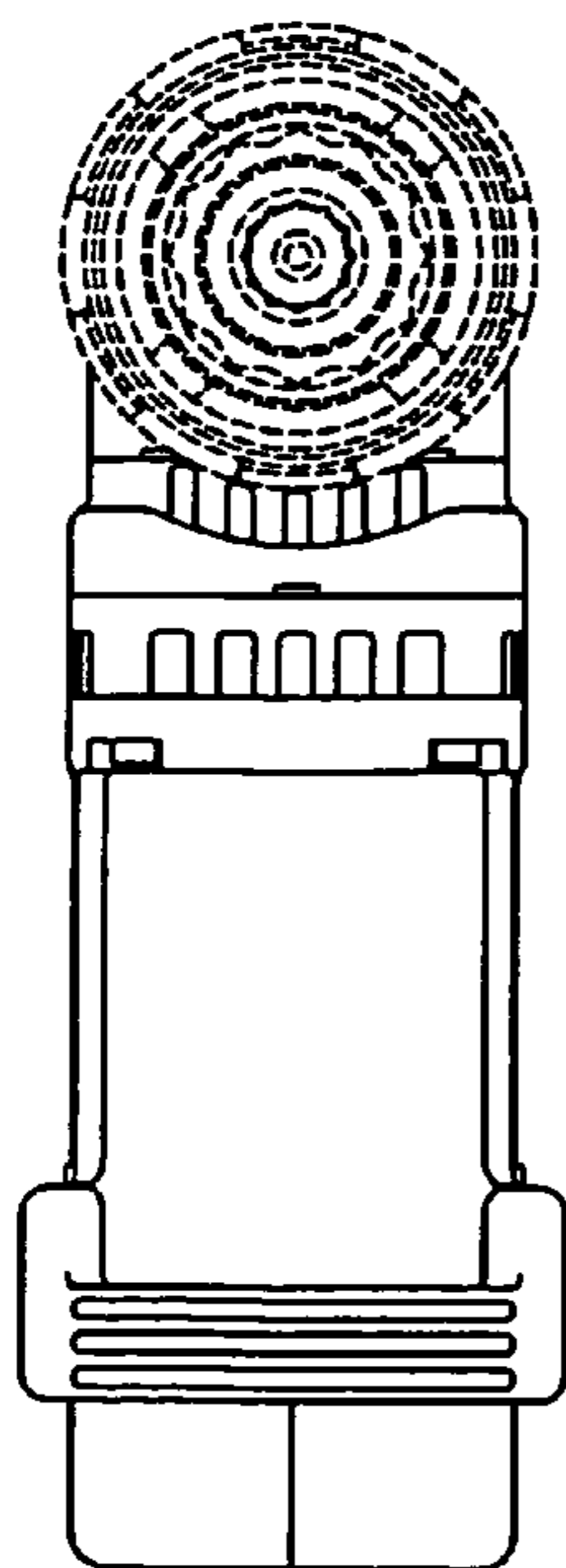


FIG. 4

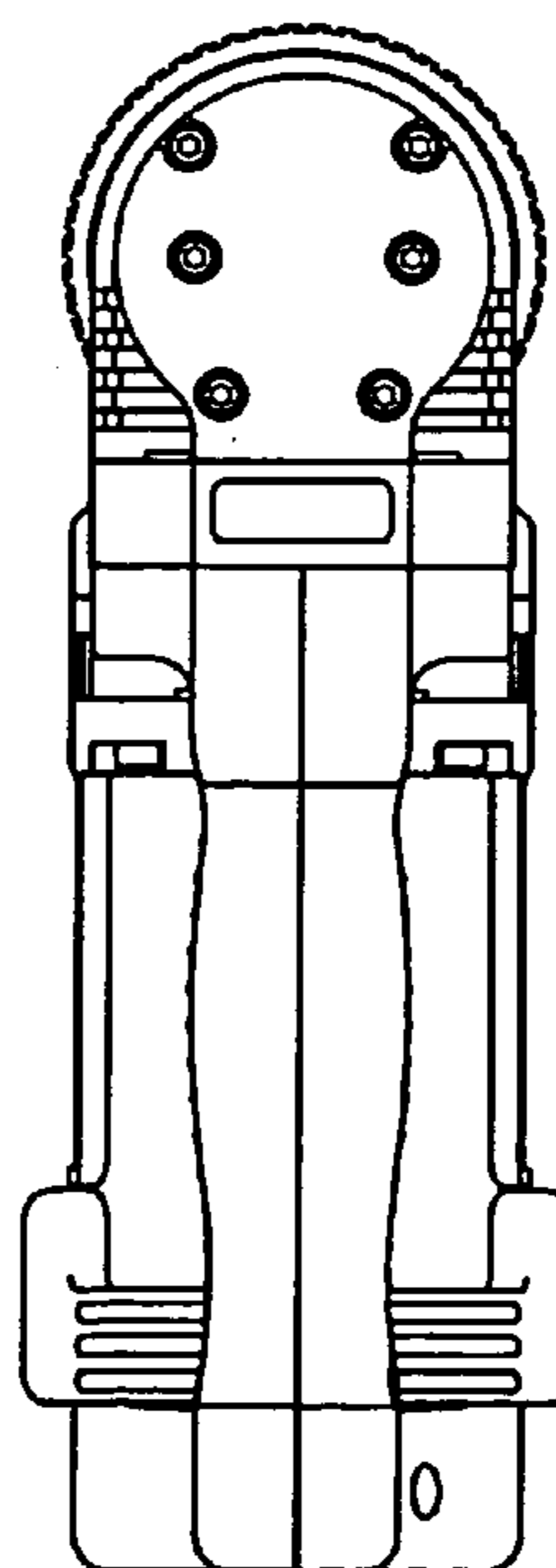


FIG. 5

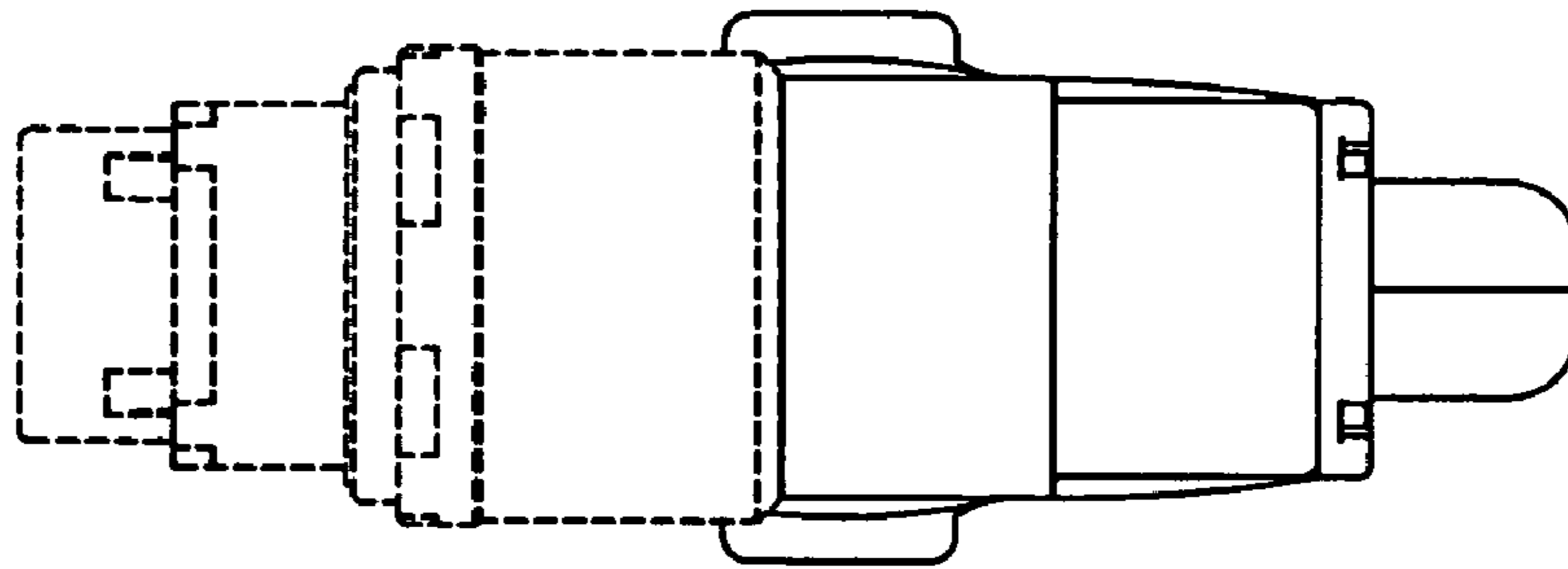


FIG. 6

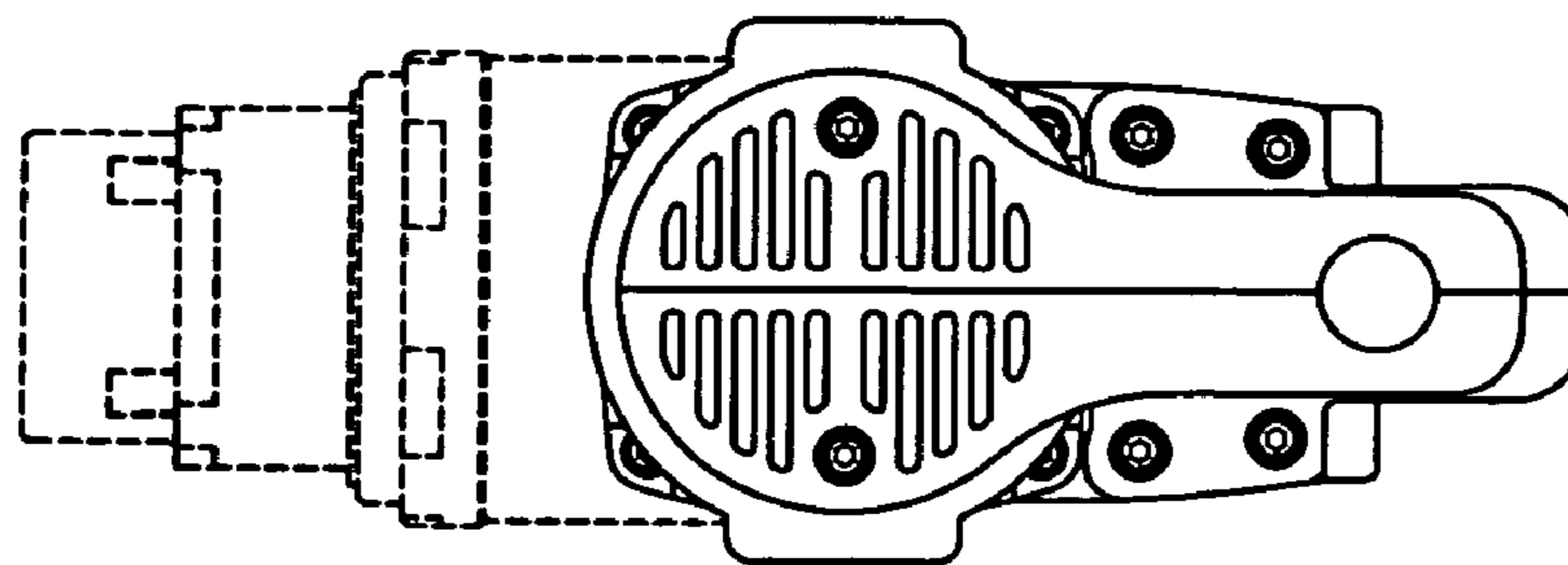


FIG. 7

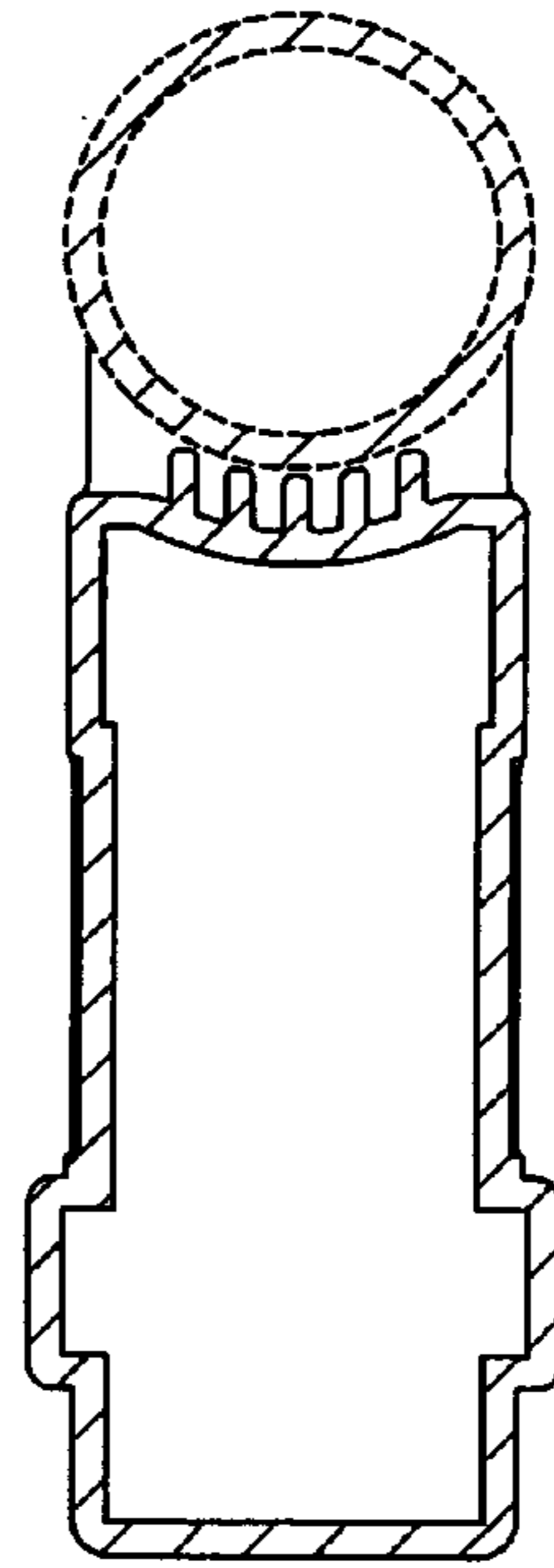


FIG. 8

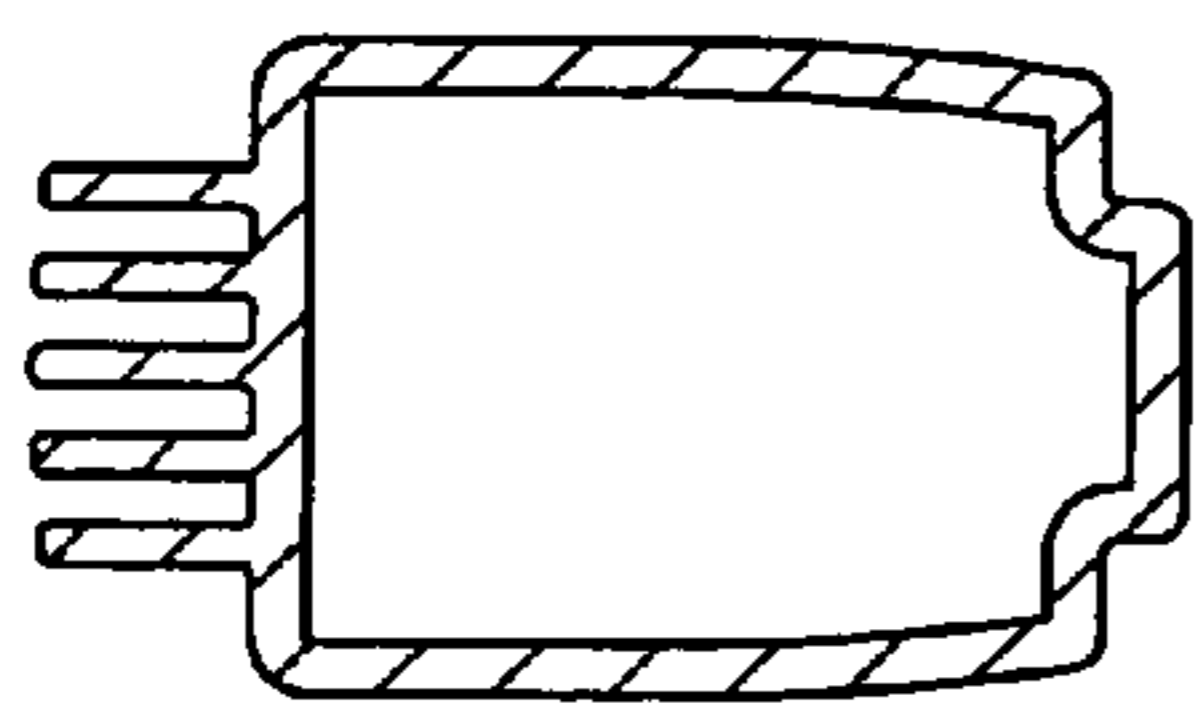


FIG. 9

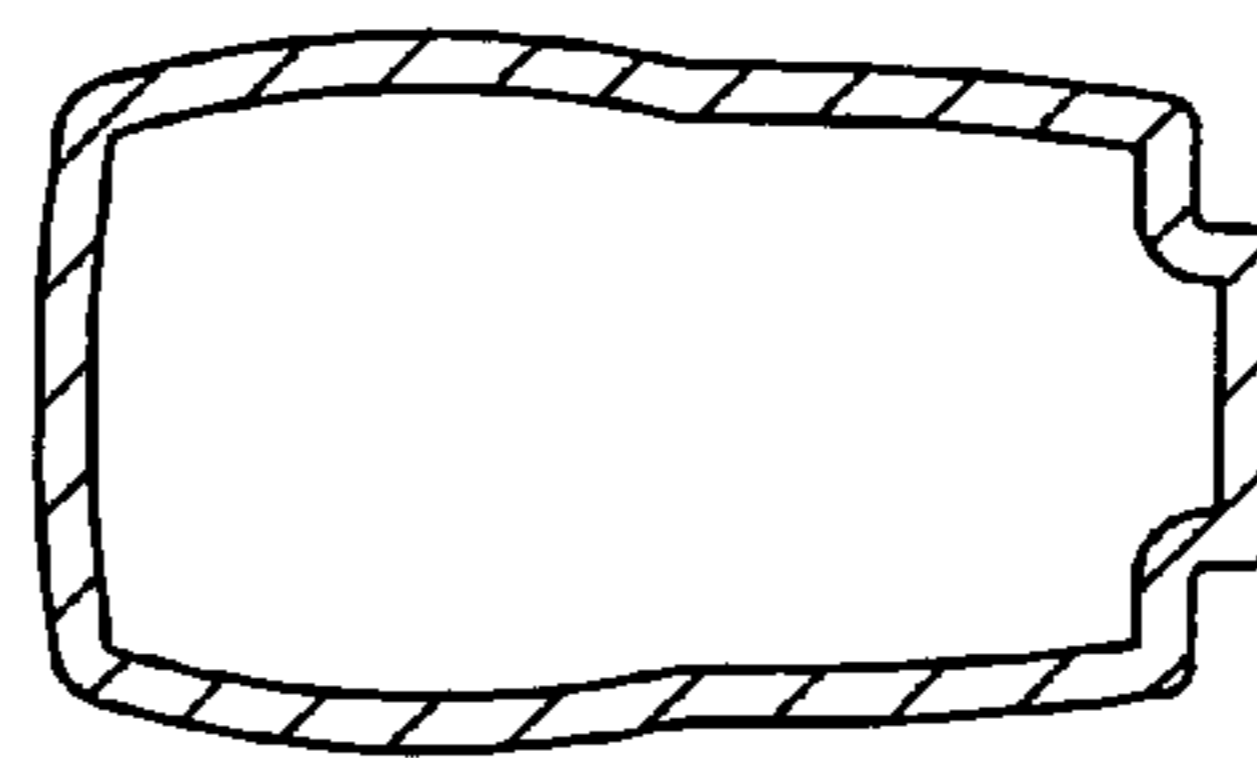


FIG. 10

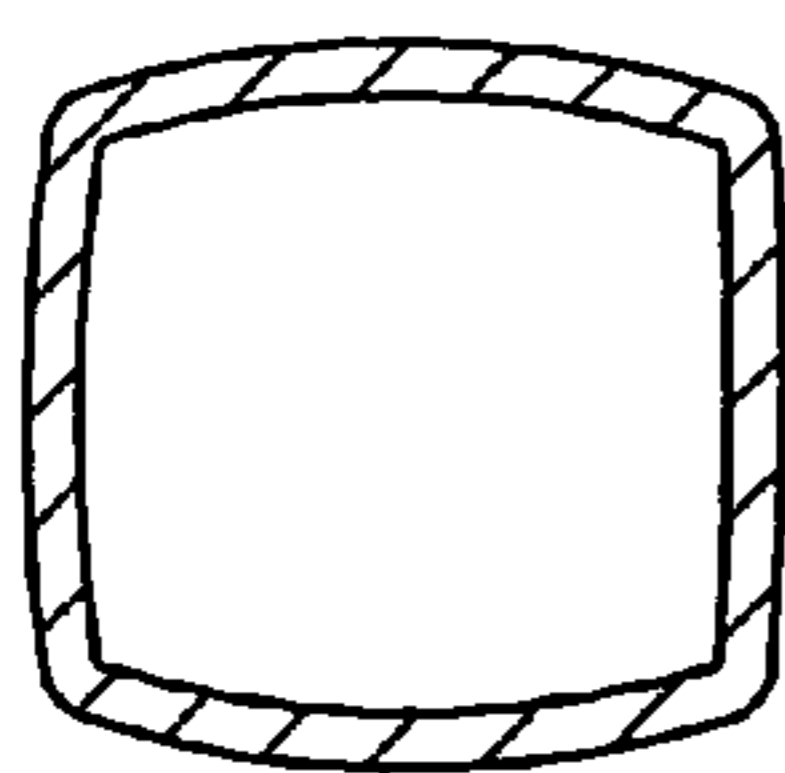


FIG. 11

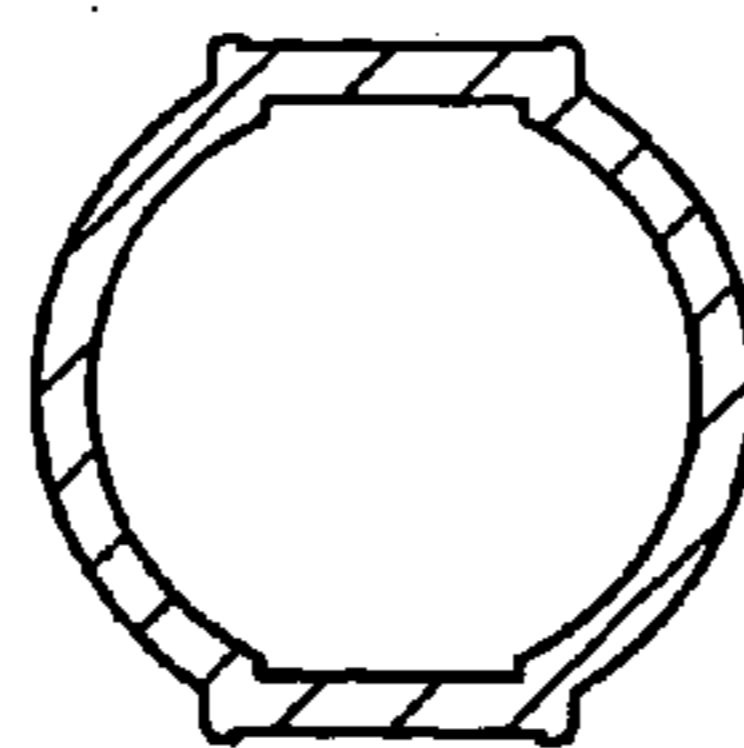


FIG. 12

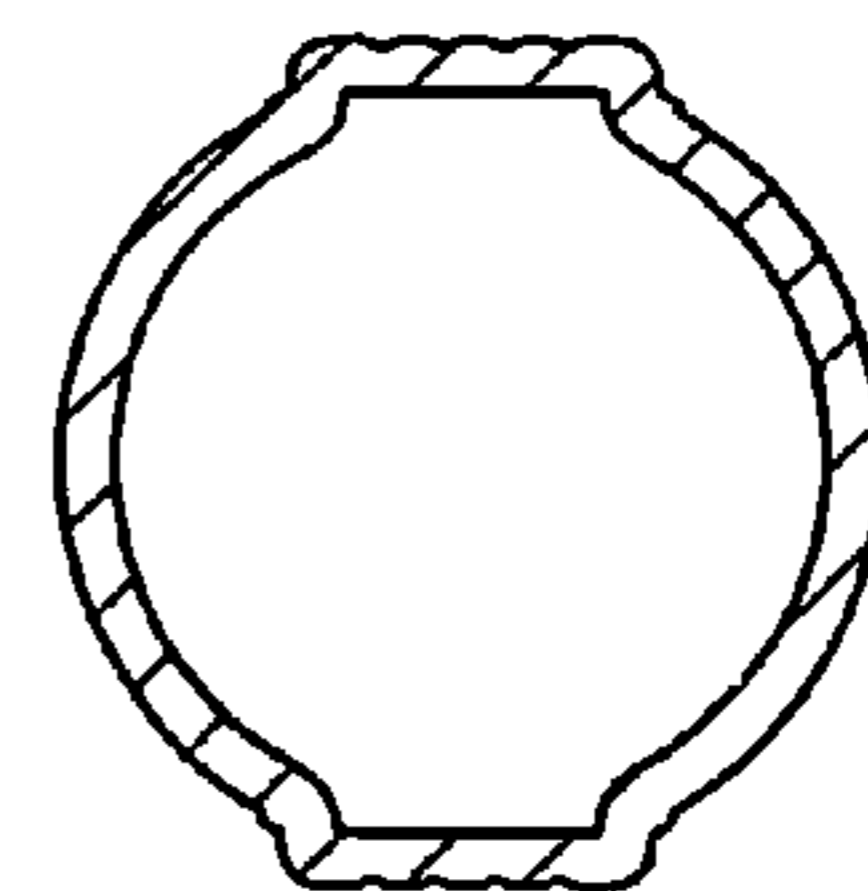


FIG. 13

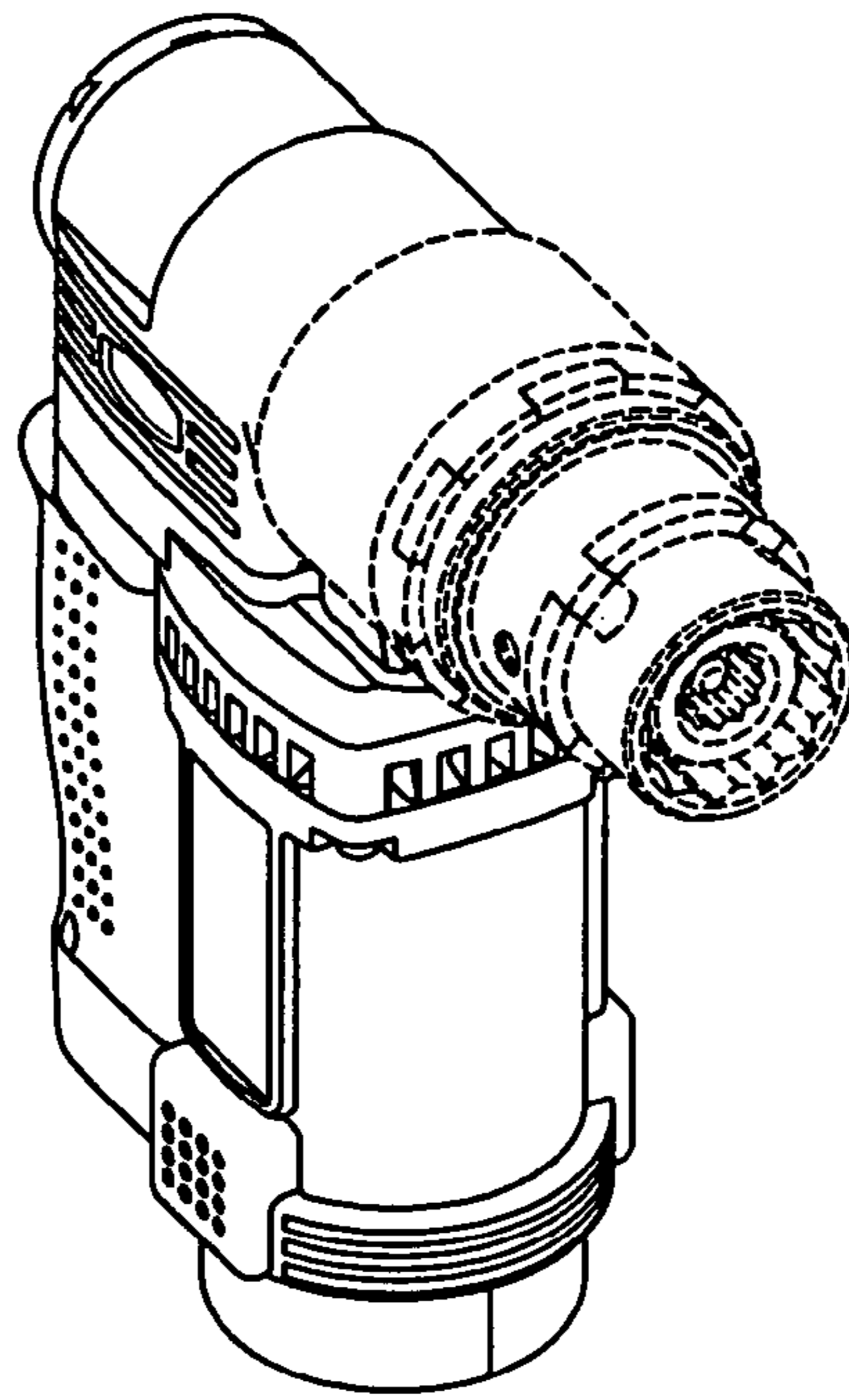


FIG. 14

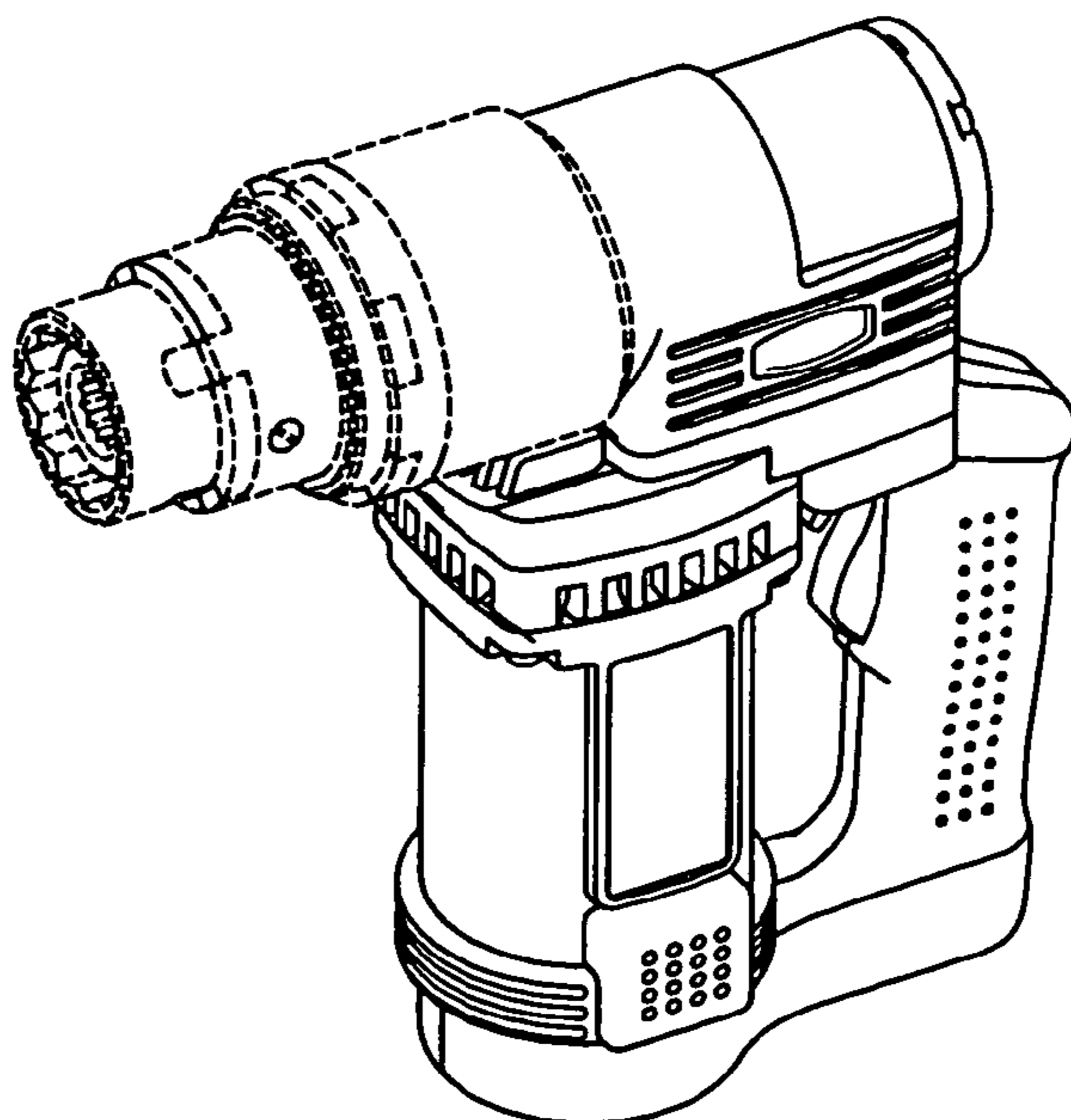


FIG. 15

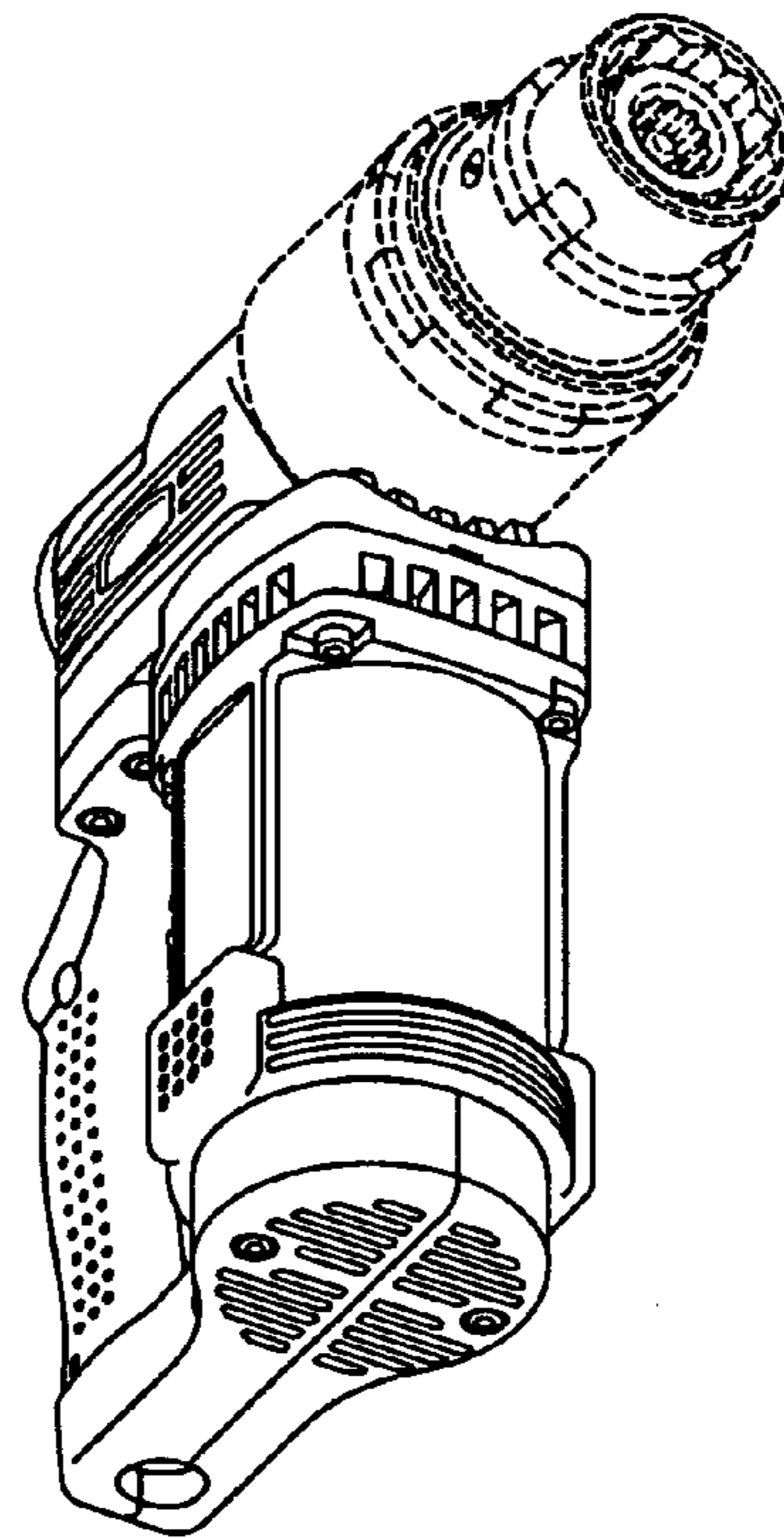


FIG. 16

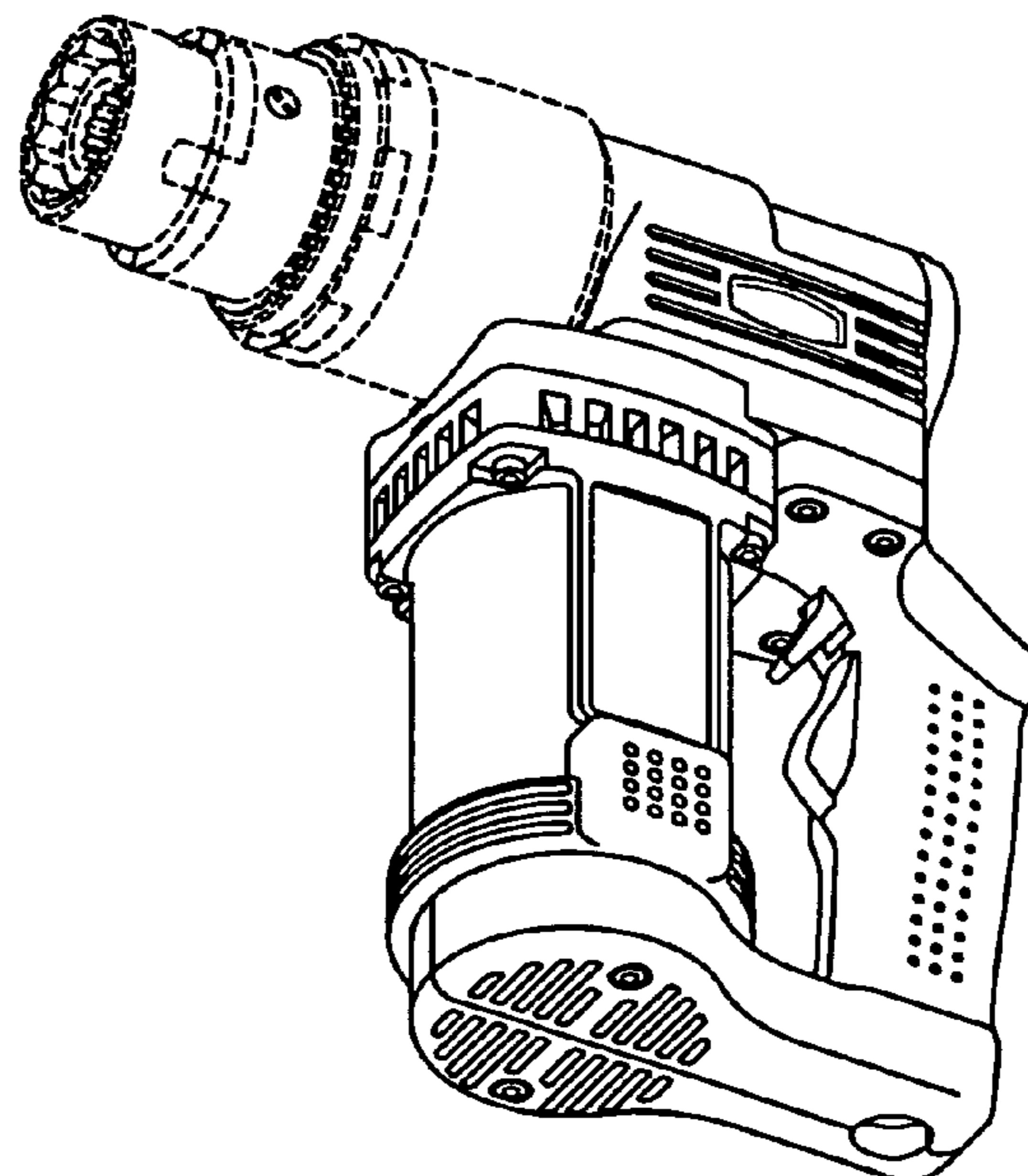


FIG. 17

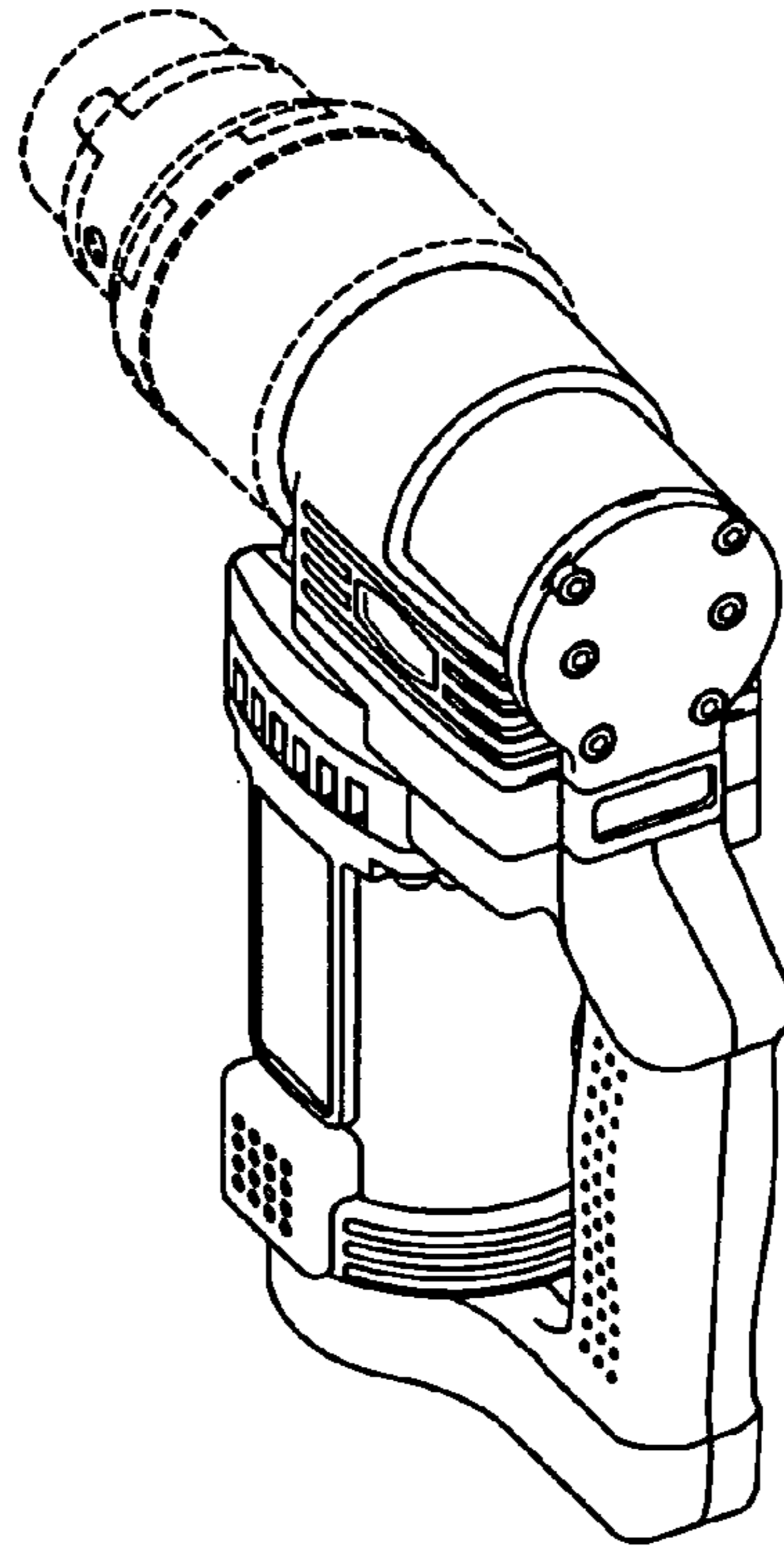


FIG. 18

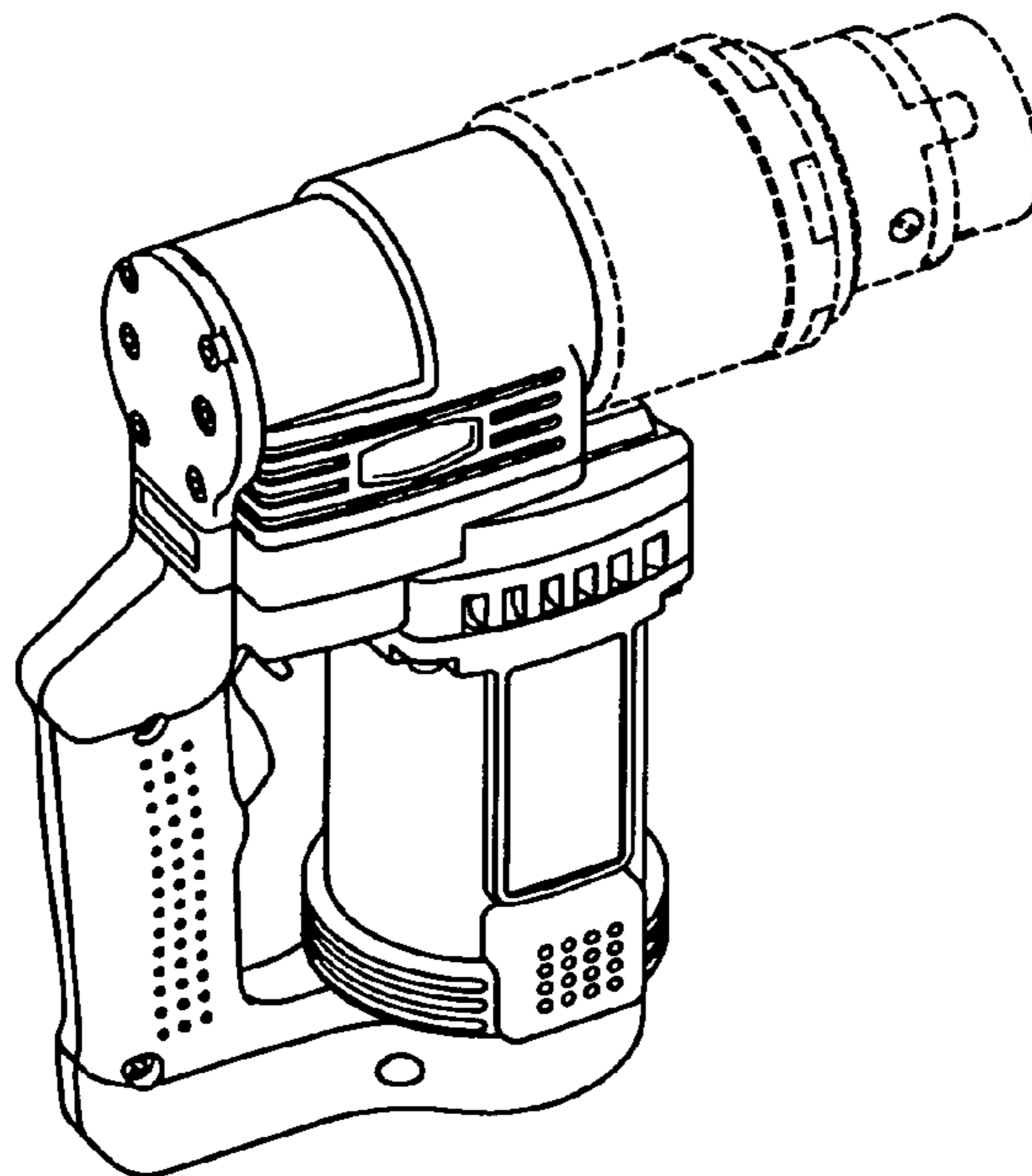




FIG. 19

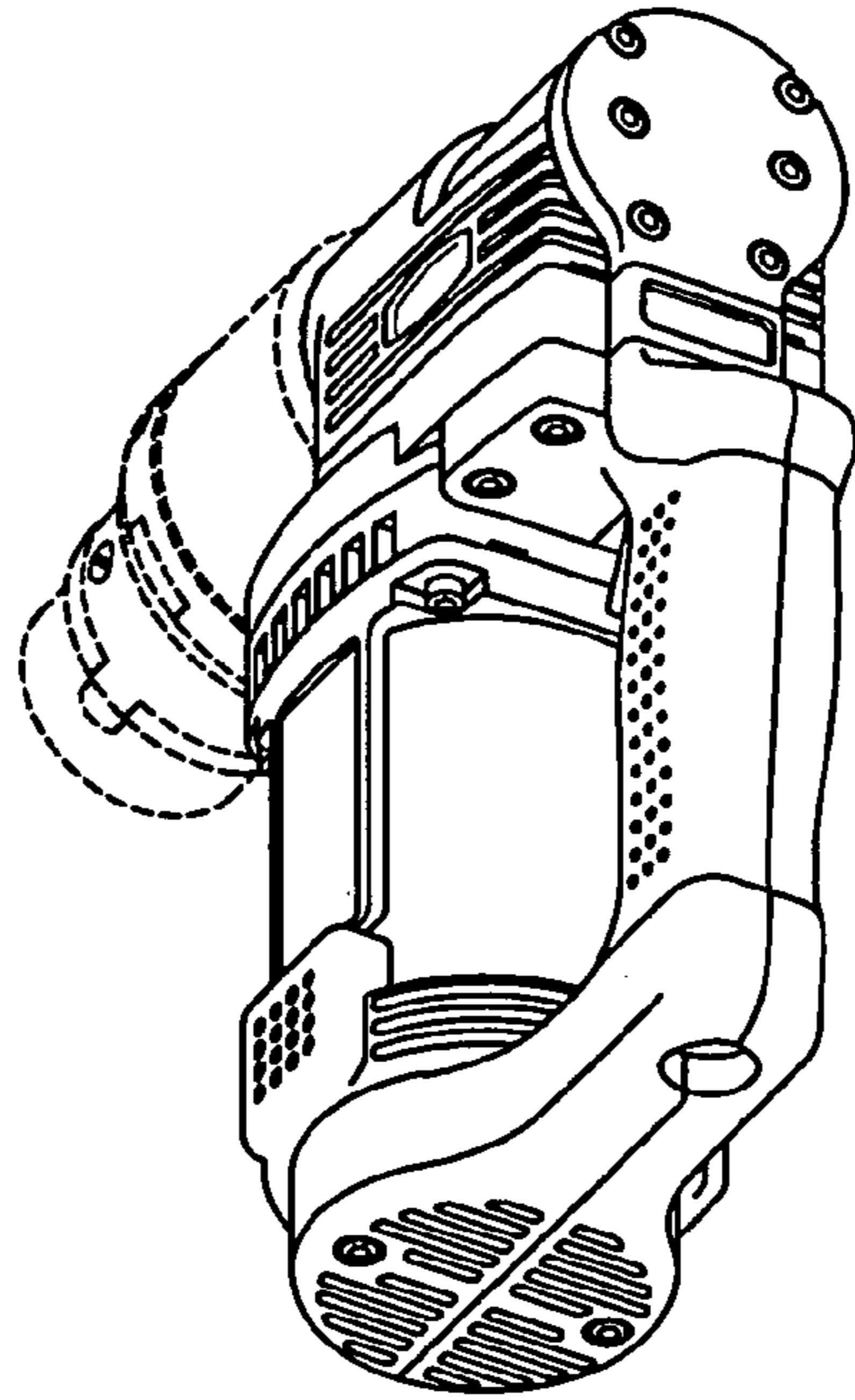


FIG. 20

