

US00D434298S

**United States Patent** [19]  
**Izumisawa**

[11] **Patent Number: Des. 434,298**

[45] **Date of Patent: \*\* Nov. 28, 2000**

[54] **IMPACT WRENCH**

[75] Inventor: **Osamu Izumisawa**, Tokyo, Japan

[73] Assignee: **S.P. Air Kabusiki Kaisha**, Nagano Pref., Japan

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

[21] Appl. No.: **29/115,045**

[22] Filed: **Dec. 6, 1999**

[51] **LOC (7) Cl.** ..... **08-05**

[52] **U.S. Cl.** ..... **D8/68**

[58] **Field of Search** ..... D8/68; 81/54, 81/57.13, 57.14; 173/169, 170; 403/365

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

- Re. 35,617 9/1997 Krivec .
- D. 205,091 6/1966 Averitt .
- D. 223,134 3/1972 Bunyea ..... D8/61

(List continued on next page.)

**FOREIGN PATENT DOCUMENTS**

- 0849052A2 6/1998 European Pat. Off. .

**OTHER PUBLICATIONS**

Ingersoll-Rand publication entitled, "Ingersoll-Rand Automotive Power Tools Catalog," 1996, pp. 1, 8-9, 11-17, 23 and 41.

Mermaid Distributors publication entitled, "Shinano Pneumatic Ind. Inc.," published at least as early as Oct. 5, 1999. Coventrys publication entitled, "Coventrys SP Air," Sep. 1994.

SP Air Corporation publication entitled, "1/2 [inch] Square Drive Impact Wrenches," published at least as early as Oct. 5, 1999.

Shinano Pneumatic Industries Inc. publication entitled, "SP Air," published at least as early as Oct. 5, 1999.

Shinano Pneumatic Industries Inc. publication entitled, "SP Pneumatic Tools," published as early as Oct. 5, 1999, pp. 1-2, 7-12 and 15.

Burson Auto Parts publication entitled, "Burson Auto Parts SP Air," published at least as early as Oct. 5, 1999. Viking Air Tools untitled publication, Aug. 1990.

*Primary Examiner*—Antoine Duval Davis  
*Attorney, Agent, or Firm*—Senniger, Powers, Leavitt & Roedel

[57] **CLAIM**

The ornamental design for an impact wrench, as shown and described.

**DESCRIPTION**

FIG. 1 is a right side elevation of an impact wrench of a first embodiment of the present invention showing a detail of texturing used on a grip of the wrench;

FIG. 2 is a left side elevation of the wrench of the first embodiment;

FIG. 3 is a front elevation of the wrench of the first embodiment;

FIG. 4 is a rear elevation of the wrench of the first embodiment;

FIG. 5 is a top plan of the wrench of the first embodiment; and

FIG. 6 is a bottom plan of the wrench of the first embodiment;

FIG. 7 is a right side elevation of an impact wrench of a second embodiment of the present invention;

FIG. 8 is a left side elevation of the wrench of the second embodiment;

FIG. 9 is a front elevation of the wrench of the second embodiment;

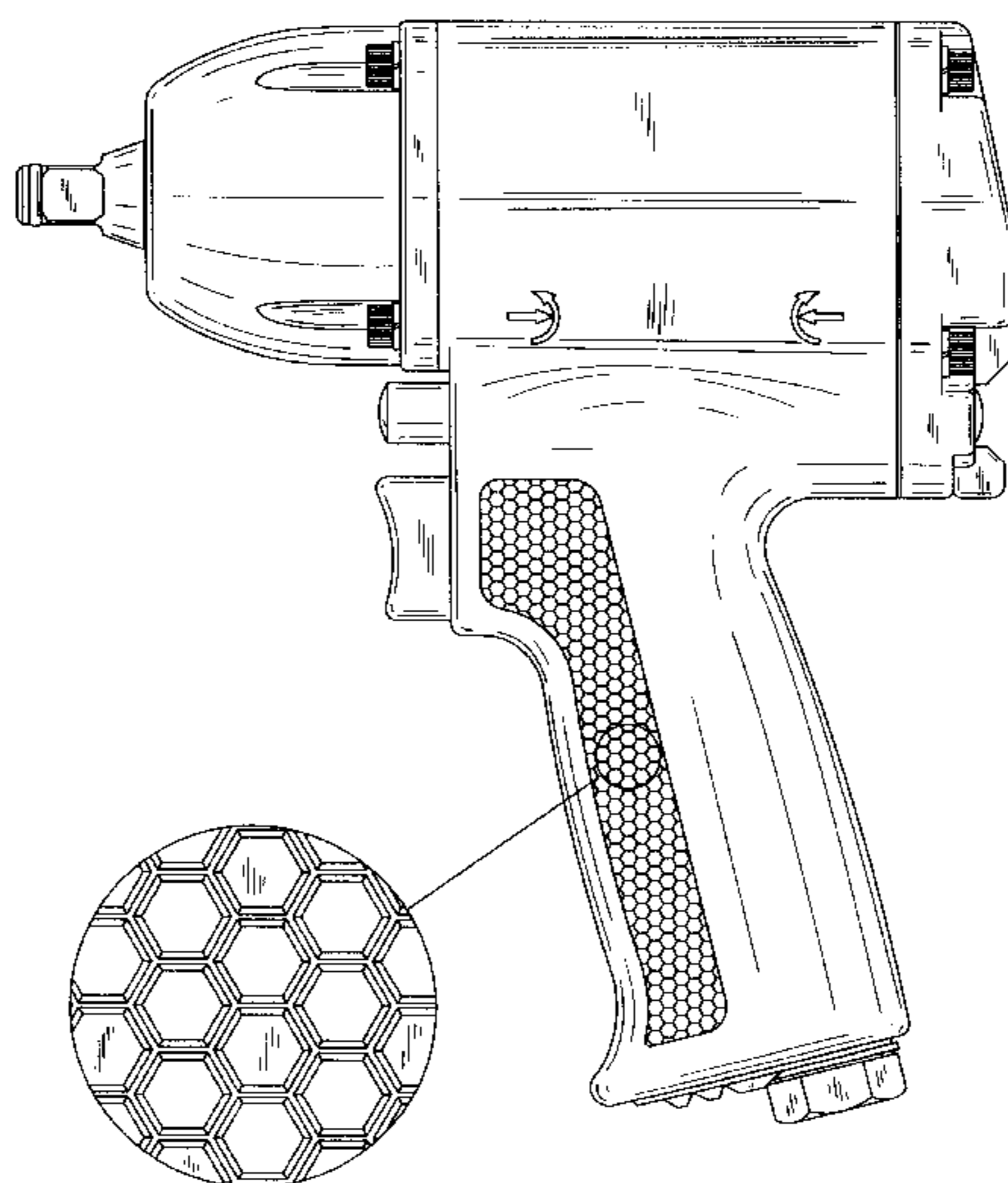
FIG. 10 is a rear elevation of the wrench of the second embodiment;

FIG. 11 is a top plan of the wrench of the second embodiment; and,

FIG. 12 is a bottom plan of the wrench of the second embodiment.

The broken lines shown in the drawings indicate features which form no part of the design.

**1 Claim, 8 Drawing Sheets**



U.S. PATENT DOCUMENTS

D. 256,771	9/1980	Kitagawa et al. .	D. 394,995	6/1998	Cooper .
D. 256,980	9/1980	Adams et al. .	D. 400,074	10/1998	Cooper .
D. 288,769	3/1987	Doman .	D. 403,564	1/1999	Izumisawa .
D. 288,770	3/1987	Doman .	D. 410,830	6/1999	Pusateri et al. .... D8/61
D. 289,136	4/1987	Doman .	2,829,285	4/1958	Steiner et al. .
D. 294,001	2/1988	Greenlee et al. .... D8/61	3,352,368	11/1967	Maffey, Jr. .
D. 299,411	1/1989	Porcaro .	3,605,914	9/1971	Kramer .
D. 313,736	1/1991	Boliver et al. .	3,661,217	5/1972	Maurer .
D. 316,019	4/1991	Belanger .	3,833,068	9/1974	Hall .
D. 319,763	9/1991	Reiferscheid .	3,880,245	4/1975	Anderson, Jr. .
D. 324,801	3/1992	Caskey et al. .	3,924,961	12/1975	Hess et al. .... 173/169 X
D. 324,802	3/1992	Caskey et al. .	3,951,217	4/1976	Wallace et al. .
D. 327,830	7/1992	Fisher .	4,379,492	4/1983	Hiraoka .
D. 329,580	9/1992	Sasaki et al. .	4,778,015	10/1988	Jacobsson .
D. 344,000	2/1994	Shibata et al. .	5,083,619	1/1992	Giardino et al. .
D. 360,129	7/1995	Guegan et al. .	5,199,505	4/1993	Izumisawa .
D. 364,544	11/1995	Izumisawa .	5,269,733	12/1993	Anthony, III .
D. 388,678	1/1998	Bantly et al. .	5,377,769	1/1995	Hasuo et al. .
D. 393,580	4/1998	Bantly et al. .	5,918,686	7/1999	Izumisawa .
			6,062,323	5/2000	Pusateri et al. .... 173/169

FIG. 1

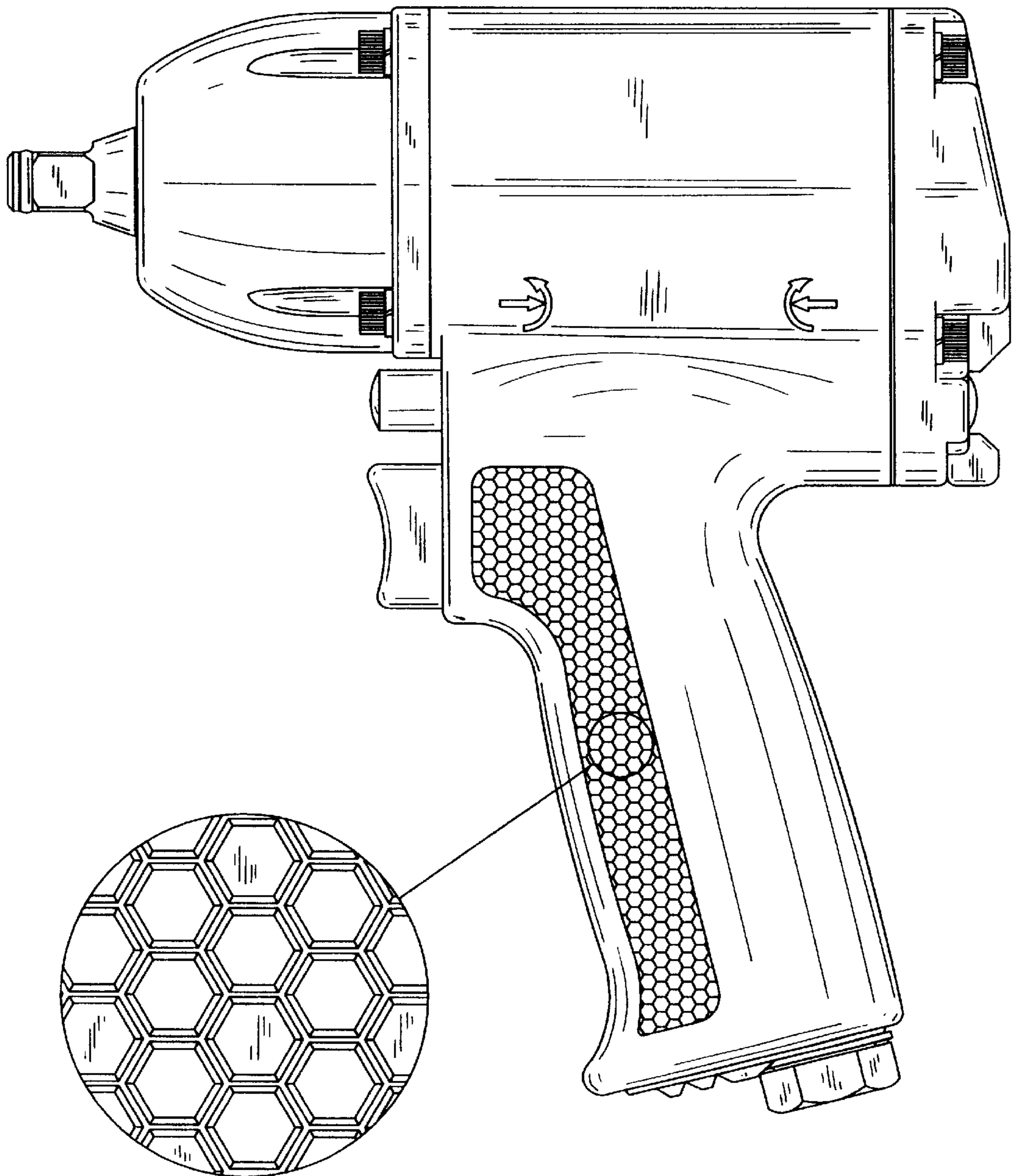


FIG. 2

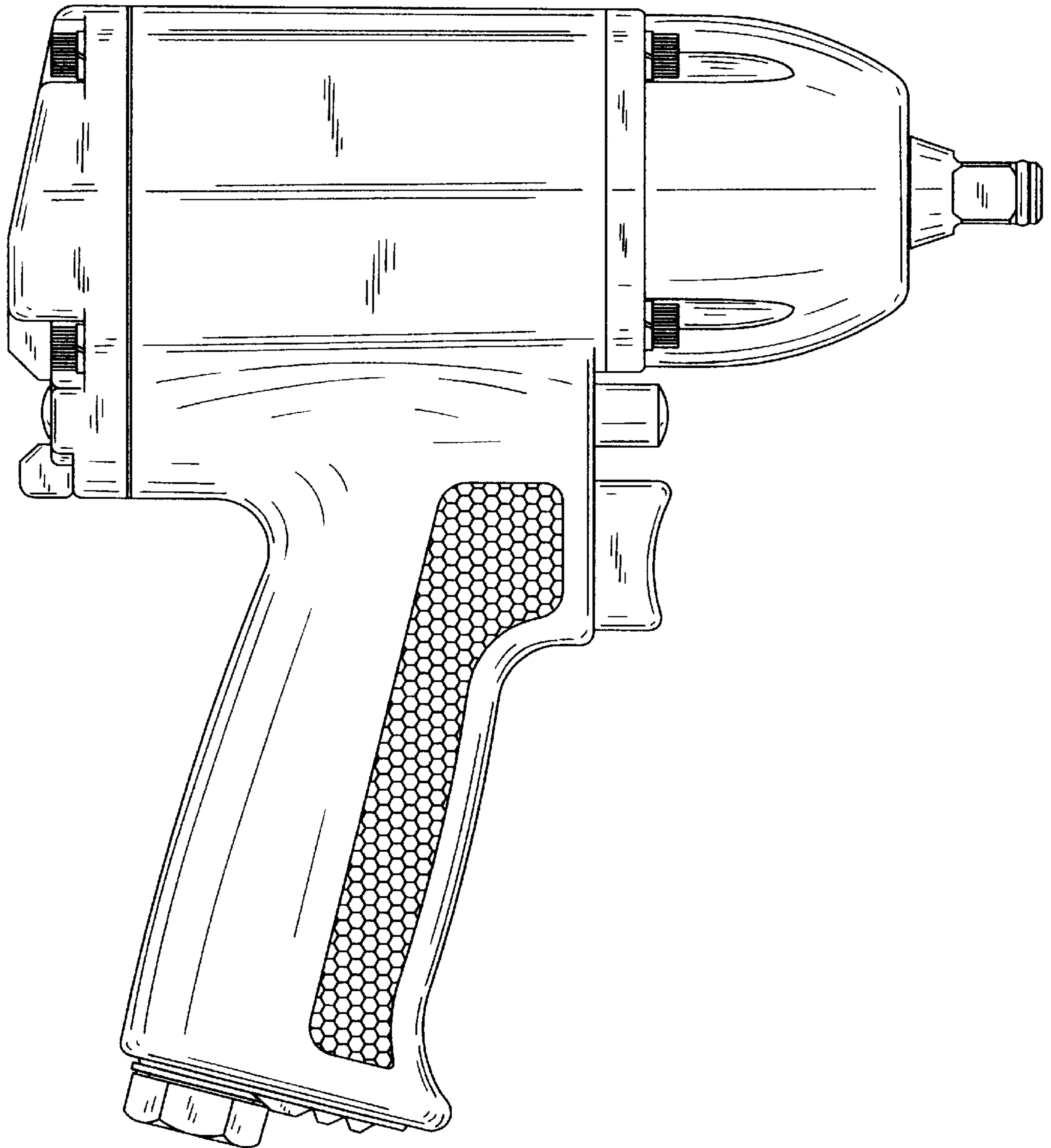


FIG. 3

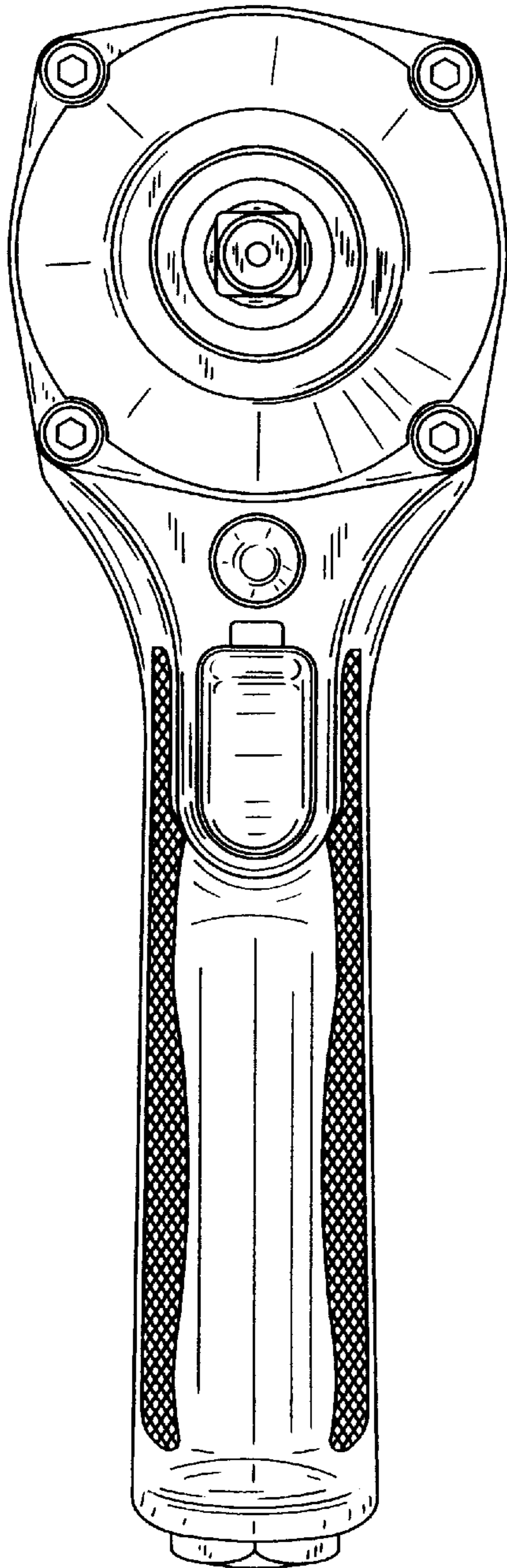


FIG. 4

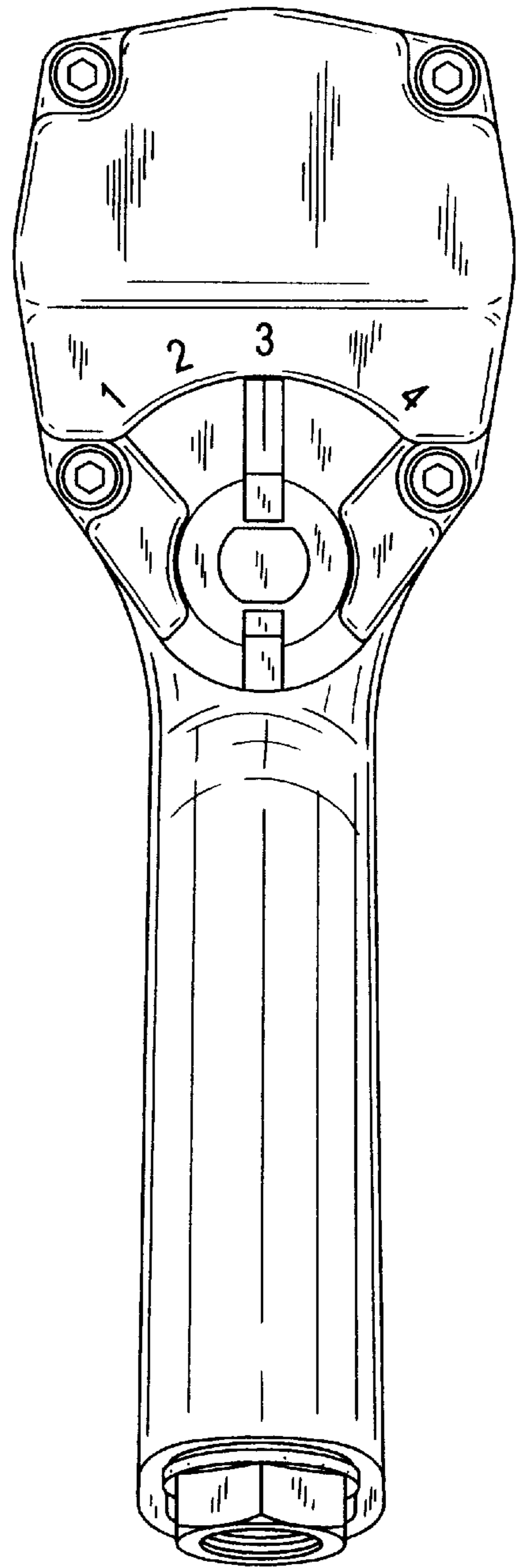


FIG. 5

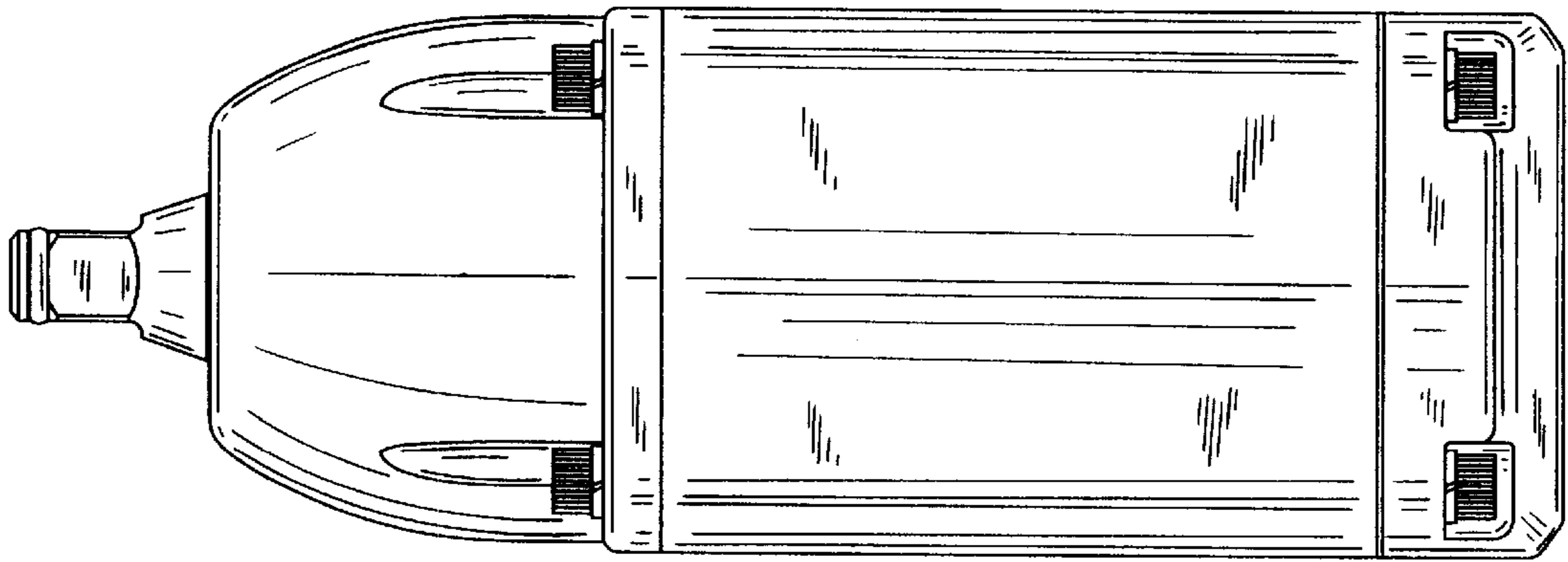


FIG. 6

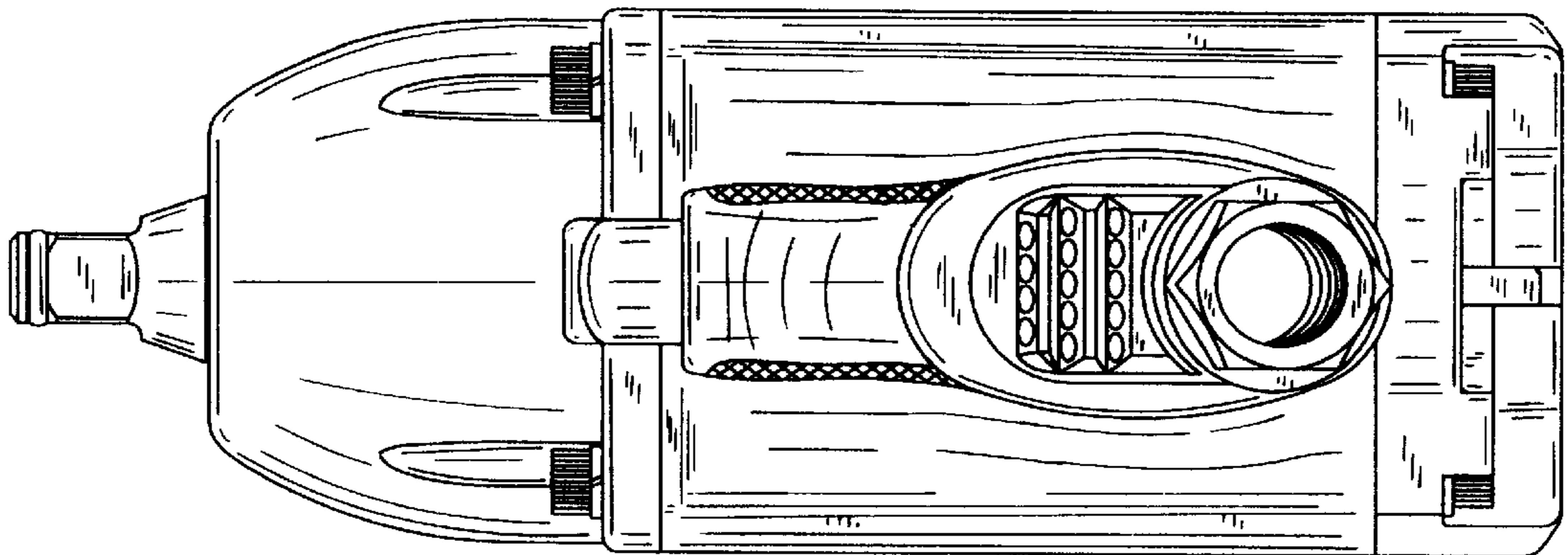


FIG. 7

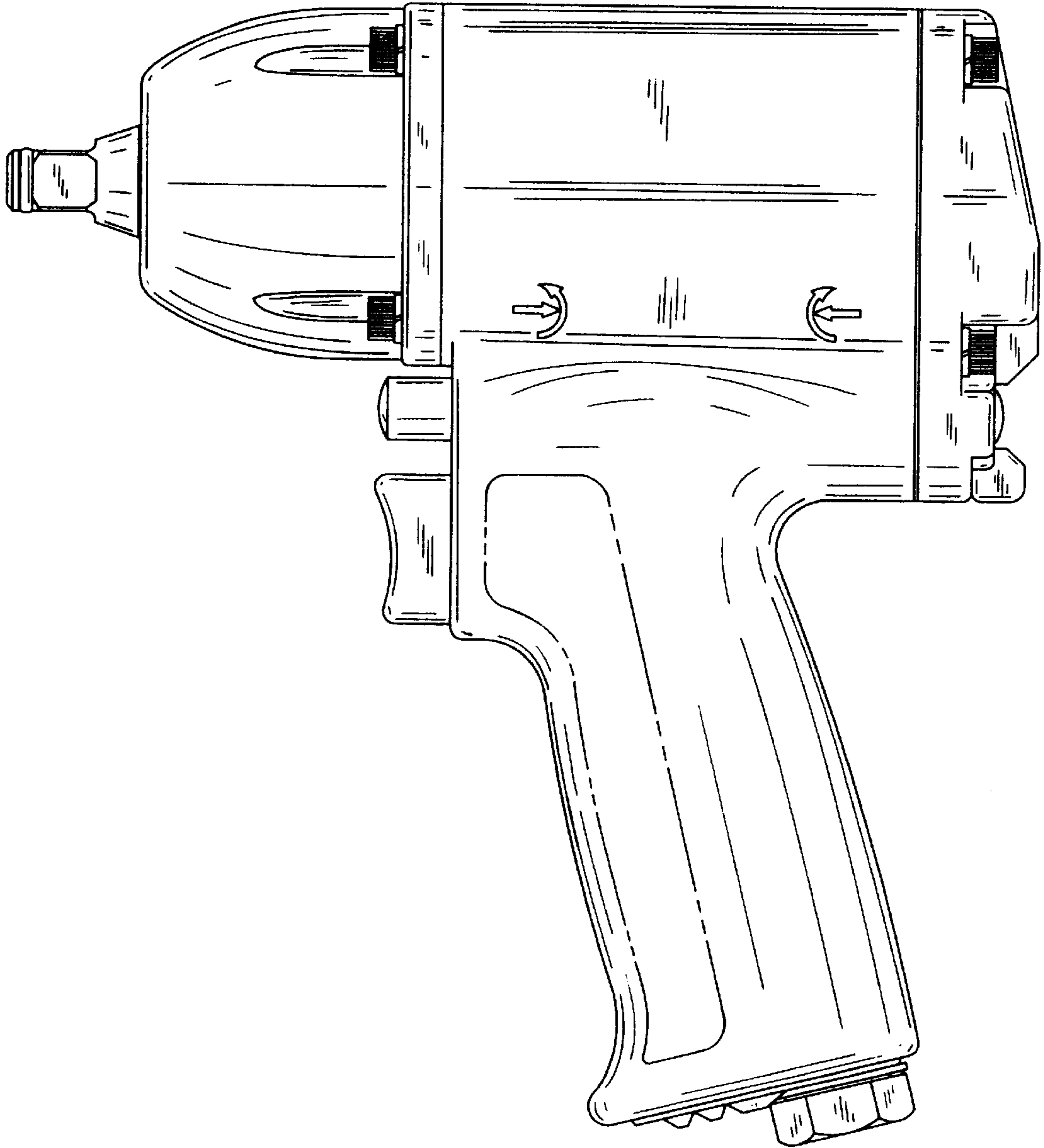


FIG. 8

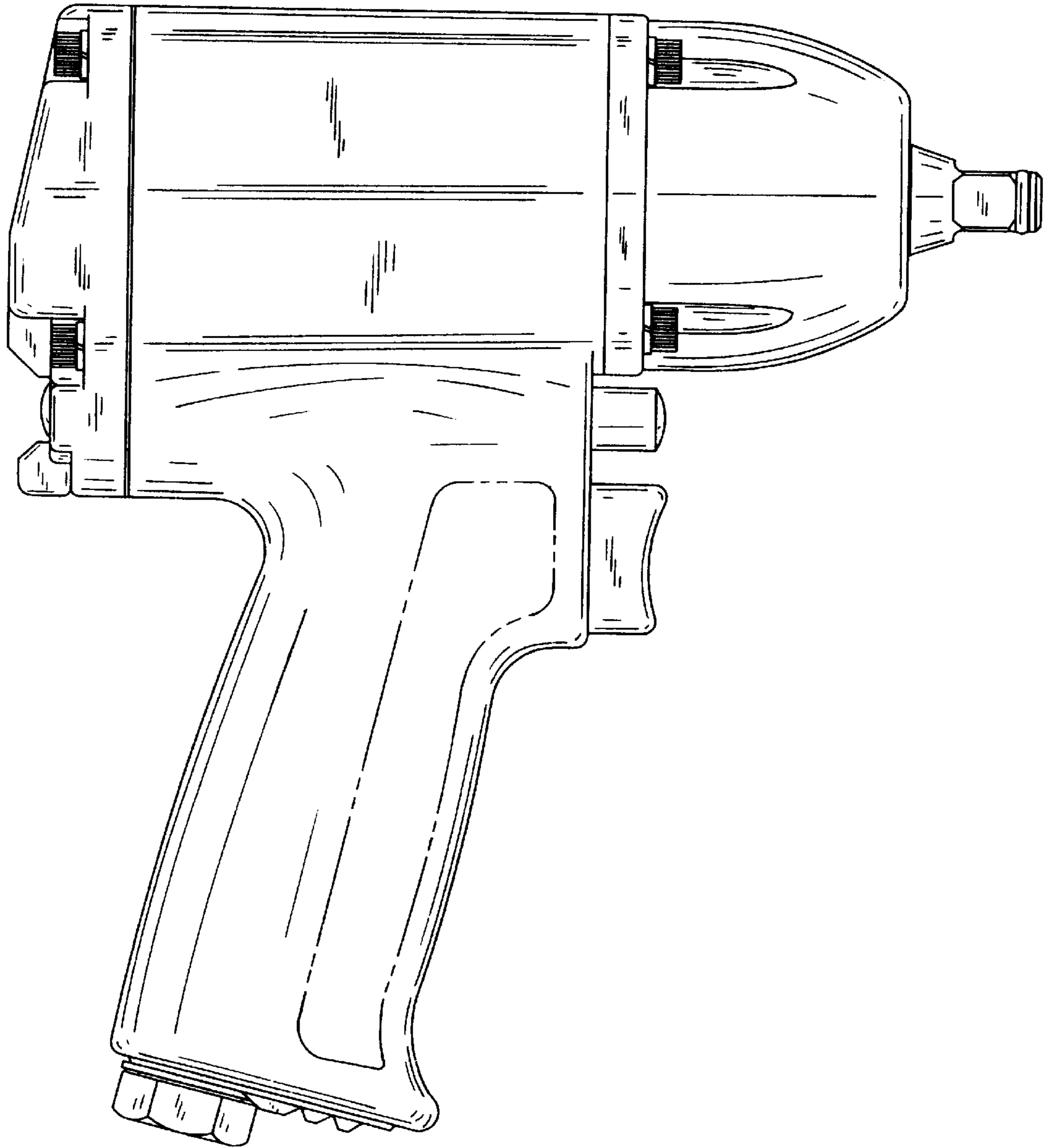




FIG. 9

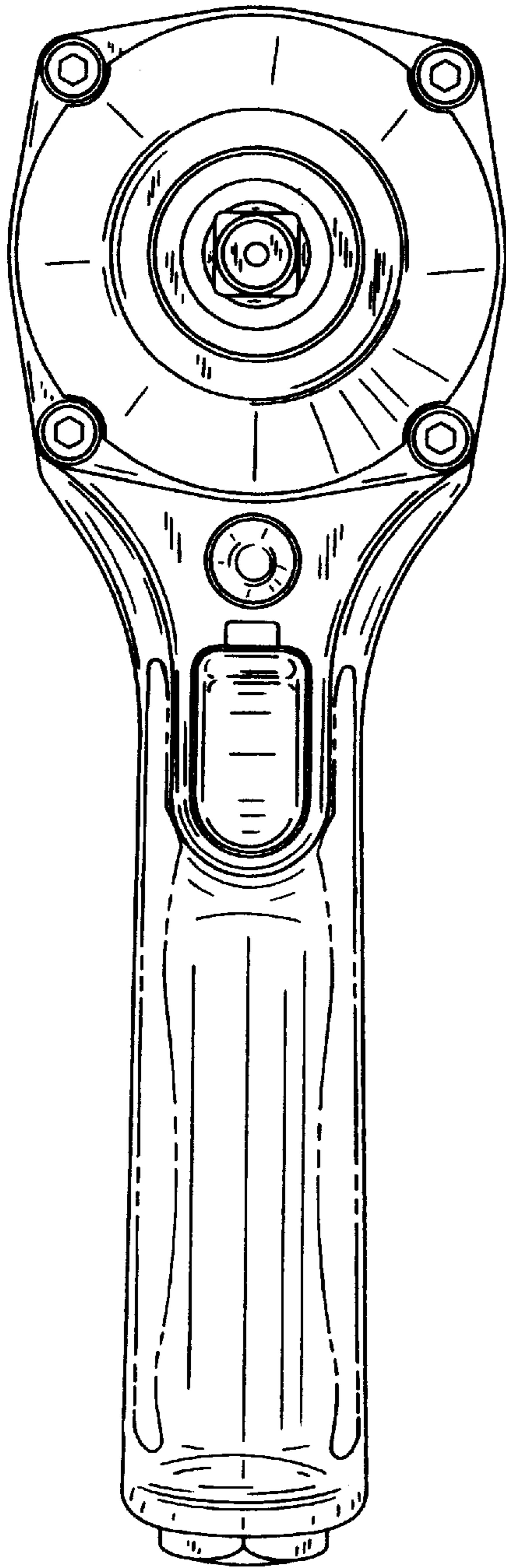


FIG. 10

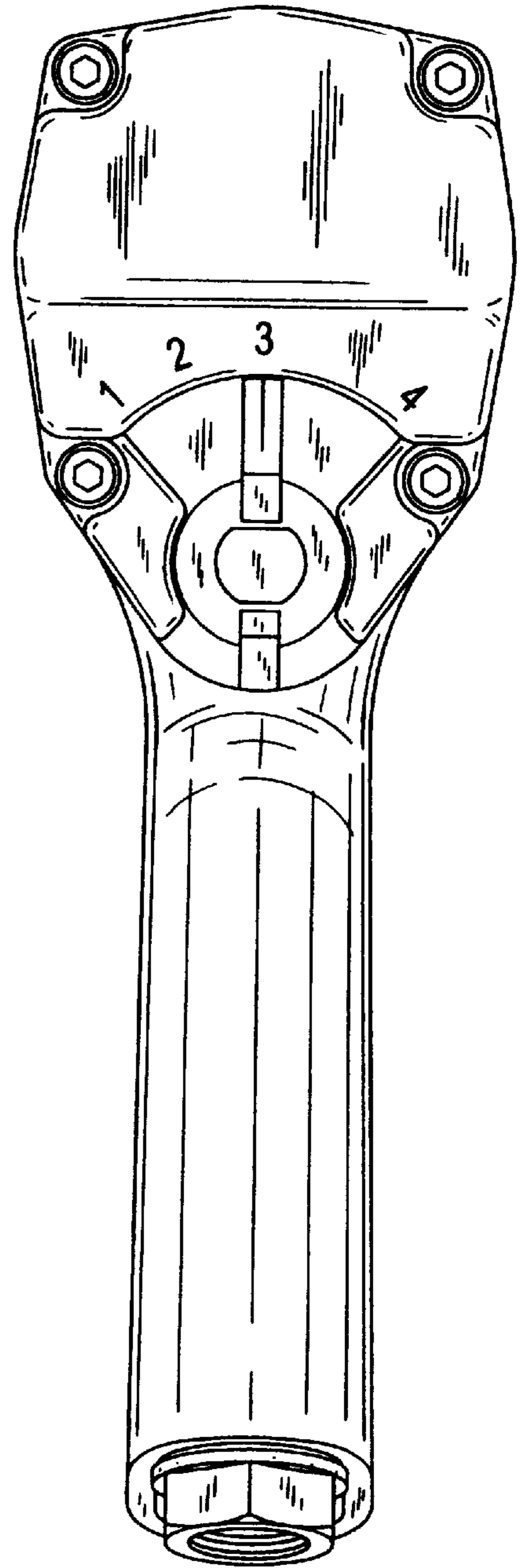


FIG. 11

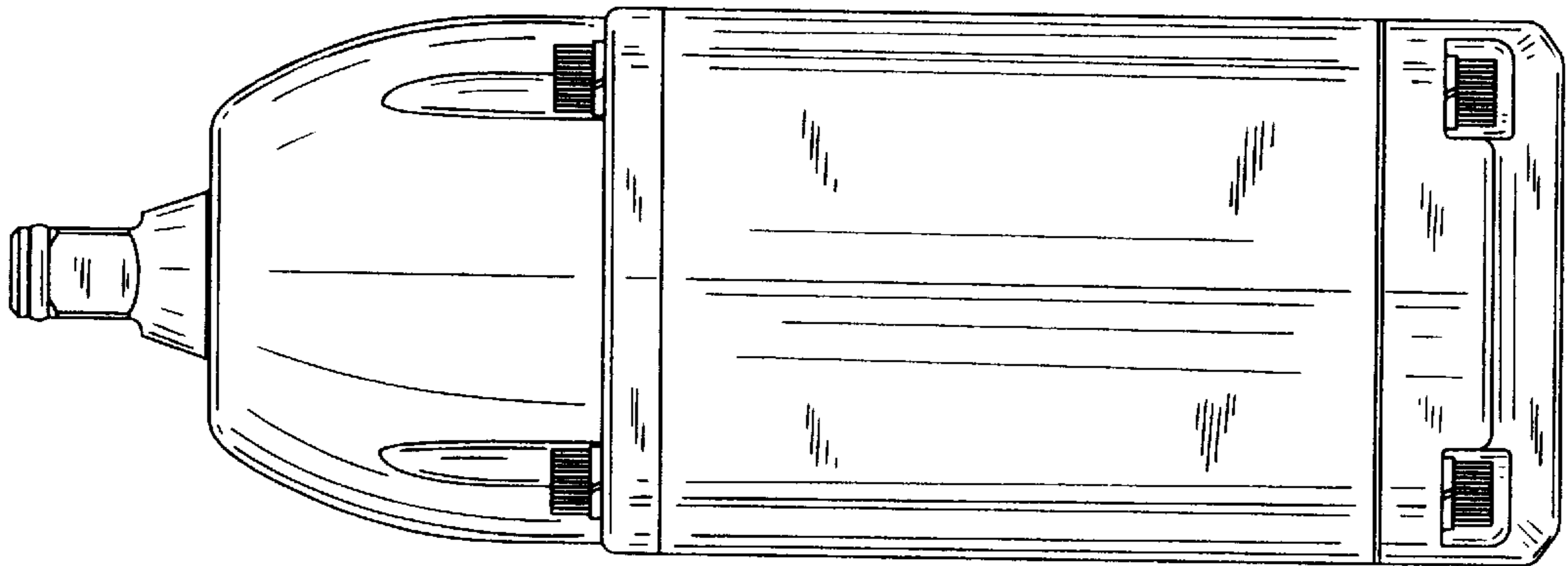


FIG. 12

