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

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(54) **RATCHET WRENCH**

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

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(51) **LOC (8) Cl.** **08-05**

(52) **U.S. Cl.** **D8/25**

(58) **Field of Classification Search** D8/17,
D8/21-29, 81-87, 102-107, 98, 99, 55, 93,
D8/94; 81/60, 119, 121.1, 120, 124.4, 124.6,
81/124.7, 125, 436, 177.6, 58-63.2, 3.09,
81/486, 158, 177.1, 122, 53.2, 441, 177.8,
81/177.9, 185.1, 177.85, 3.4, 177.4, 492,
81/13, 177.7, 166-170, 490, 124.3, 81, 87,
81/98, 99, 55, 93, 94, 165, 489, 186, 176.2,
81/3.35, 58.3, 3.45, 155, 110.1, 102-107,
81/3.345, 176.1, 176.15, 177.2; 206/378;
16/429, 441, 124.6, 110.1; 7/100, 138, 168,
7/157; D24/126; D7/395, 177.1, 436, 489;
D15/144.1; 219/75, 227, 229, 121.16, 121.18
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,986,147 A * 1/1991 Cooper 81/63.2

D340,628 S * 10/1993 Chow D8/25
D389,025 S * 1/1998 Sung D8/61
D431,164 S * 9/2000 Wimmer D8/21
D474,662 S * 5/2003 Canino et al. D8/25
D497,785 S * 11/2004 Izumisawa D8/25
D525,502 S * 7/2006 Chen D8/61
D554,460 S * 11/2007 Enriquez D8/61
D566,497 S * 4/2008 Wang D8/25

* cited by examiner

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(57) **CLAIM**

The ornamental design for a ratchet wrench, as shown and described.

DESCRIPTION

FIG. 1 is a front-right-top perspective view of a ratchet wrench, showing my new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

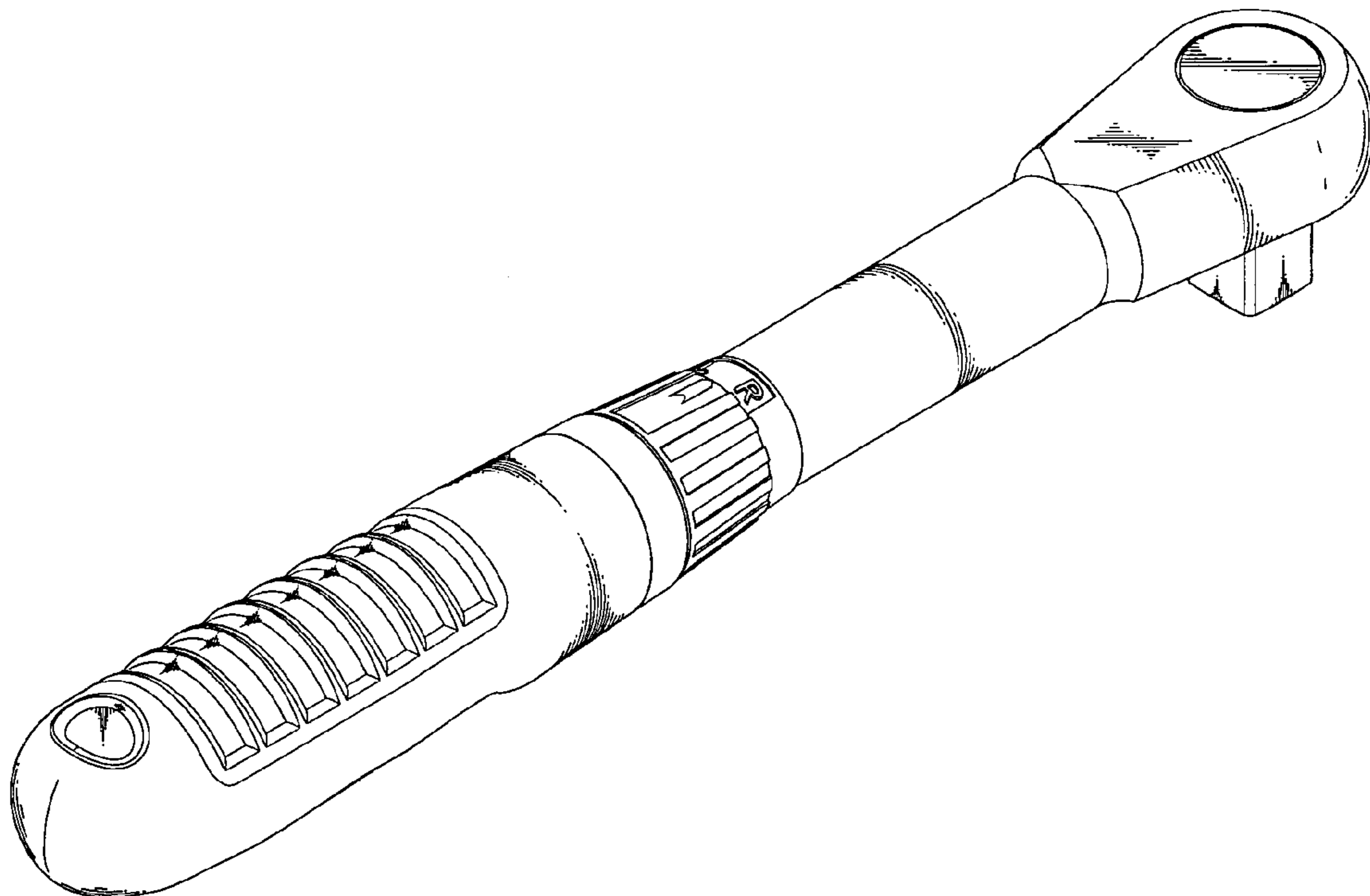
FIG. 4 is a left elevational view thereof;

FIG. 5 is a right elevational view thereof.

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom plan view thereof .

1 Claim, 4 Drawing Sheets



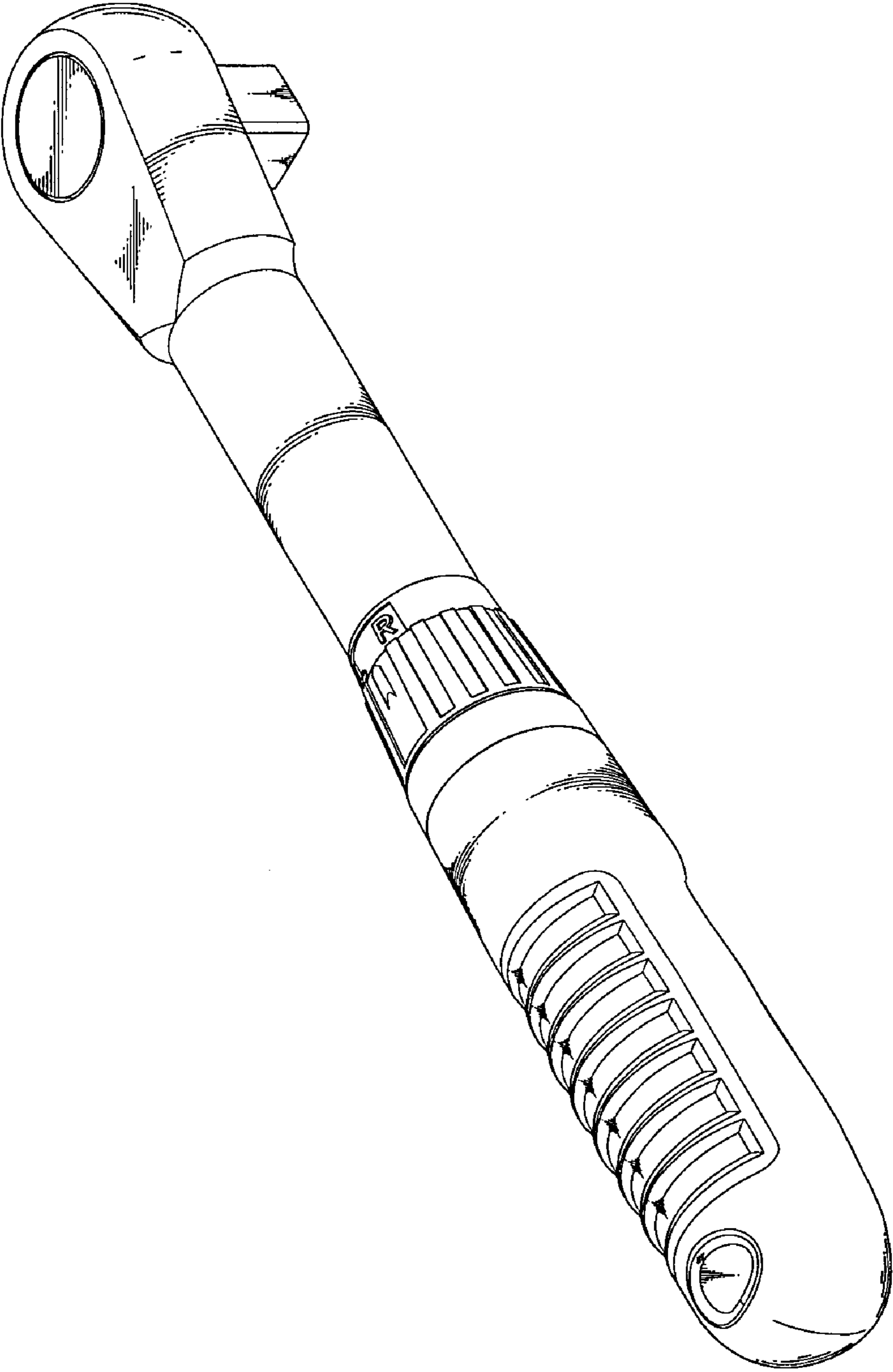


FIG. 1

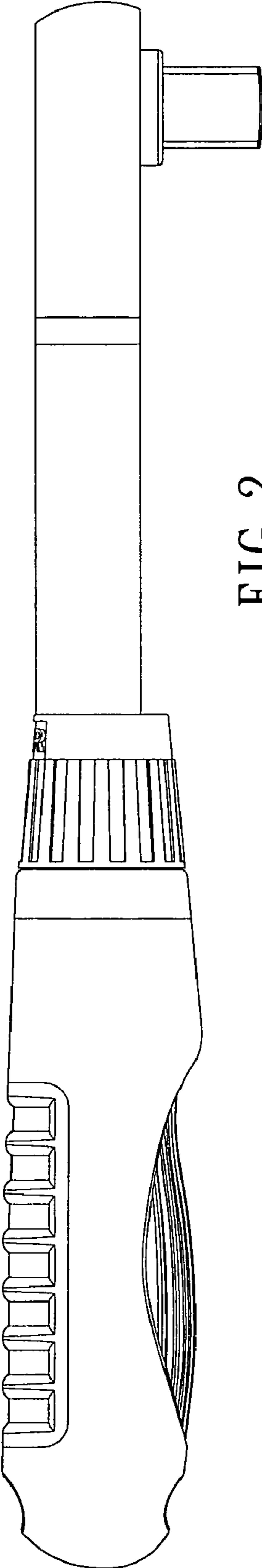


FIG. 2

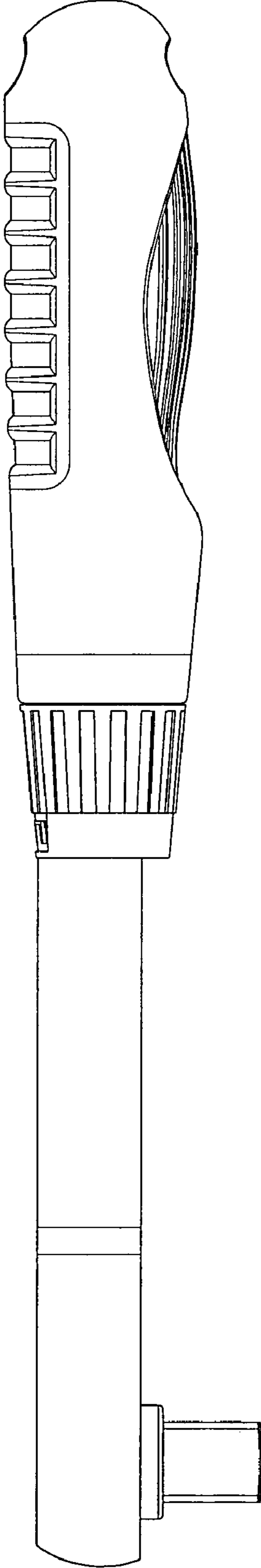


FIG. 3

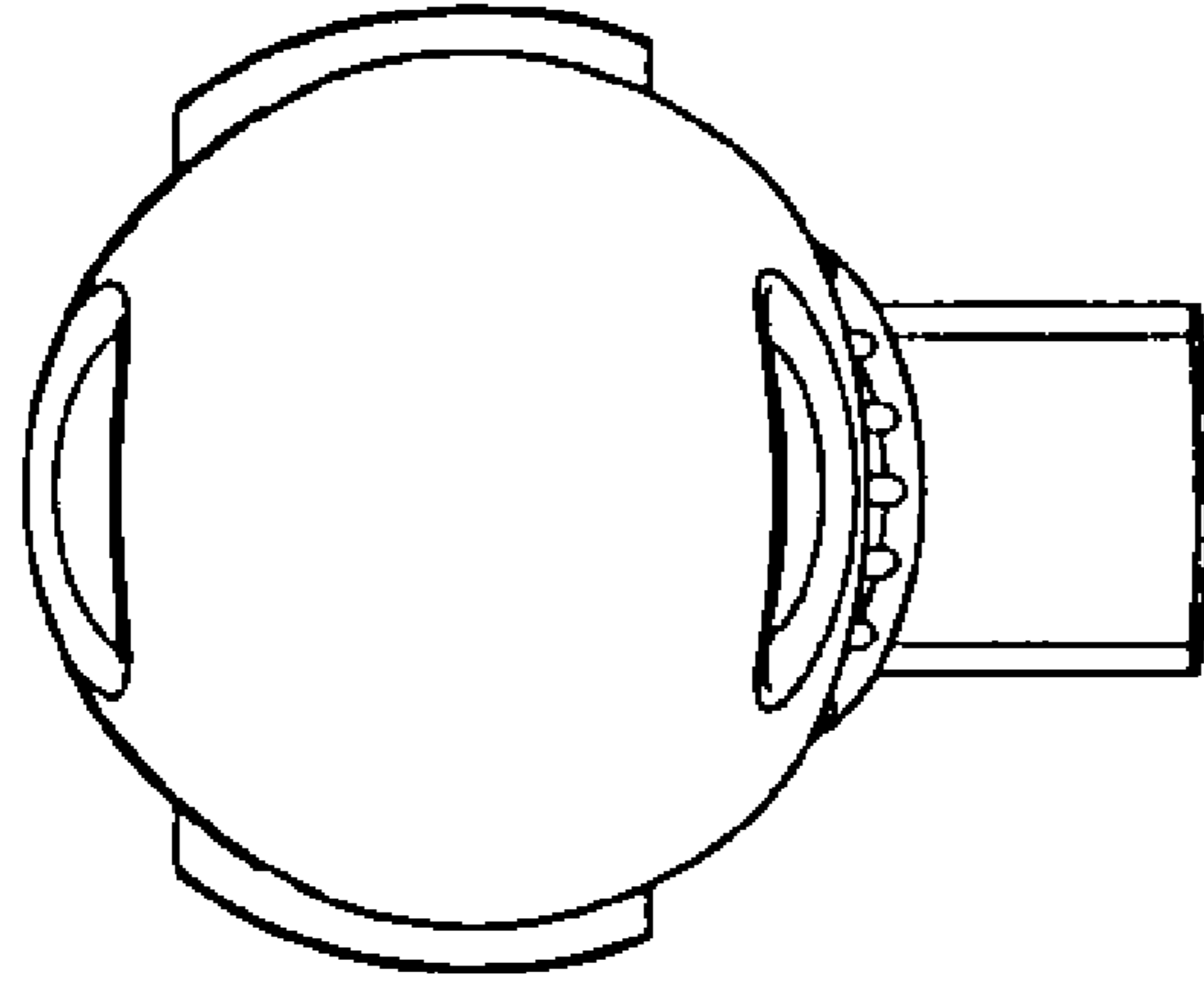


FIG. 4

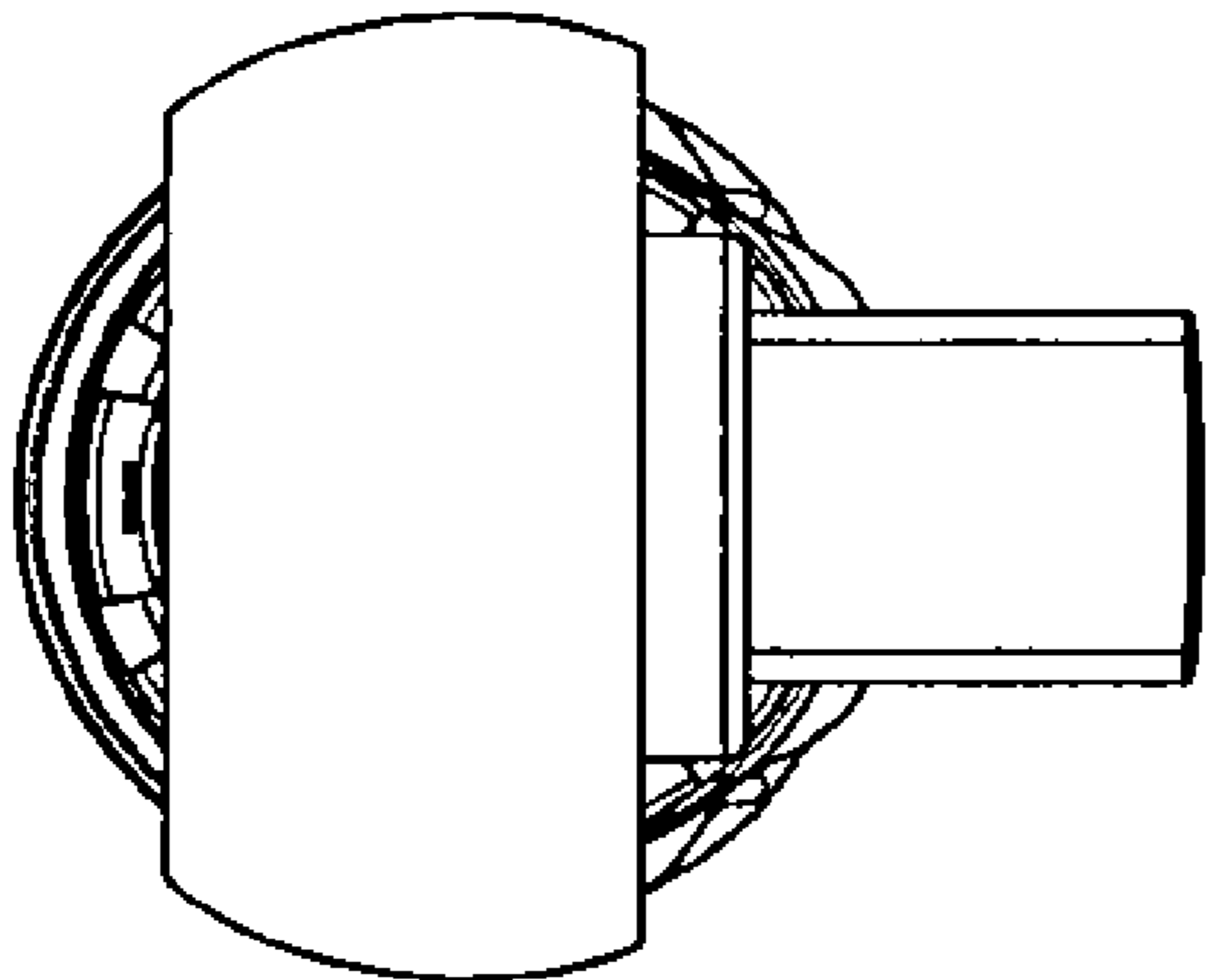


FIG. 5

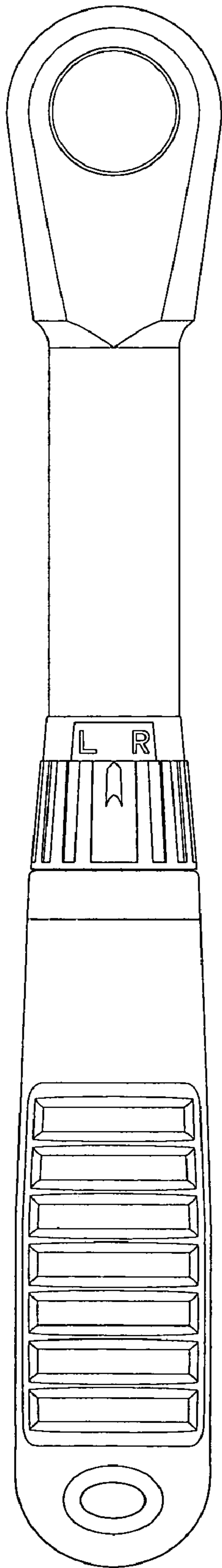


FIG. 6

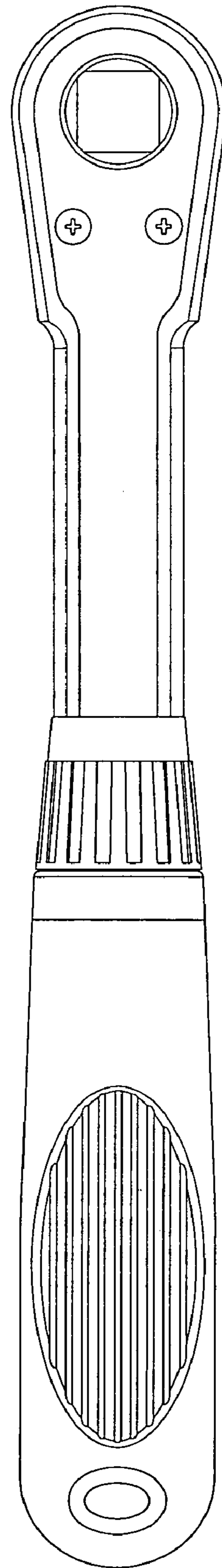


FIG. 7