

US00D631311S

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

(10) **Patent No.:** **US D631,311 S**
(45) **Date of Patent:** **** Jan. 25, 2011**

(54) **OPEN END WRENCH**

(57) **CLAIM**

(76) **Inventor:** **Te-Chuan Yang**, 528, Tung-Kuang-Yuan Rd., East District, Taichung (TW)

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

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

DESCRIPTION

(21) **Appl. No.:** **29/354,040**

FIG. 1 is a perspective view of an open end wrench showing my new design;

(22) **Filed:** **Jan. 19, 2010**

FIG. 2 is a front elevational view thereof;

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

FIG. 3 is a rear elevational view thereof;

(52) **U.S. Cl.** **D8/28**

FIG. 4 is a left side elevational view thereof;

(58) **Field of Classification Search** D8/21-30;
81/60, 177.1, 177.85, 121.1, 124.3, 165-170,
81/110.1, 176.2, 124.6, 176.1, 176.15, 177.2,
81/186, 125, 119, 180.1, 185.02; 16/110.1;
D15/144.1; 219/75, 227, 229, 121.16, 121.18
See application file for complete search history.

FIG. 5 is a right side elevational view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a perspective view thereof with a first variant of the broken lines;

(56) **References Cited**

U.S. PATENT DOCUMENTS

FIG. 9 is a perspective view thereof with a second variant of the broken lines;

FIG. 10 is a perspective view thereof with a third variant of the broken lines;

| | | | | | | |
|-----------|----|---|---------|-------|-------|----------|
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| D481,276 | S | * | 10/2003 | Hu | | D8/28 |
| 6,655,239 | B1 | * | 12/2003 | Macor | | 81/125.1 |
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| D552,440 | S | * | 10/2007 | Wu | | D8/28 |
| D562,655 | S | * | 2/2008 | Chen | | D8/28 |

FIG. 11 is a perspective view thereof with a fourth variant of the broken lines;

FIG. 12 is a perspective view thereof with a fifth variant of the broken lines;

FIG. 13 is a perspective view thereof with a sixth variant of the broken lines;

FIG. 14 is a perspective view thereof with a seventh variant of the broken lines;

FIG. 15 is a perspective view thereof with an eighth variant of the broken lines; and,

FIG. 16 is a perspective view thereof with a ninth variant of the broken lines.

* cited by examiner

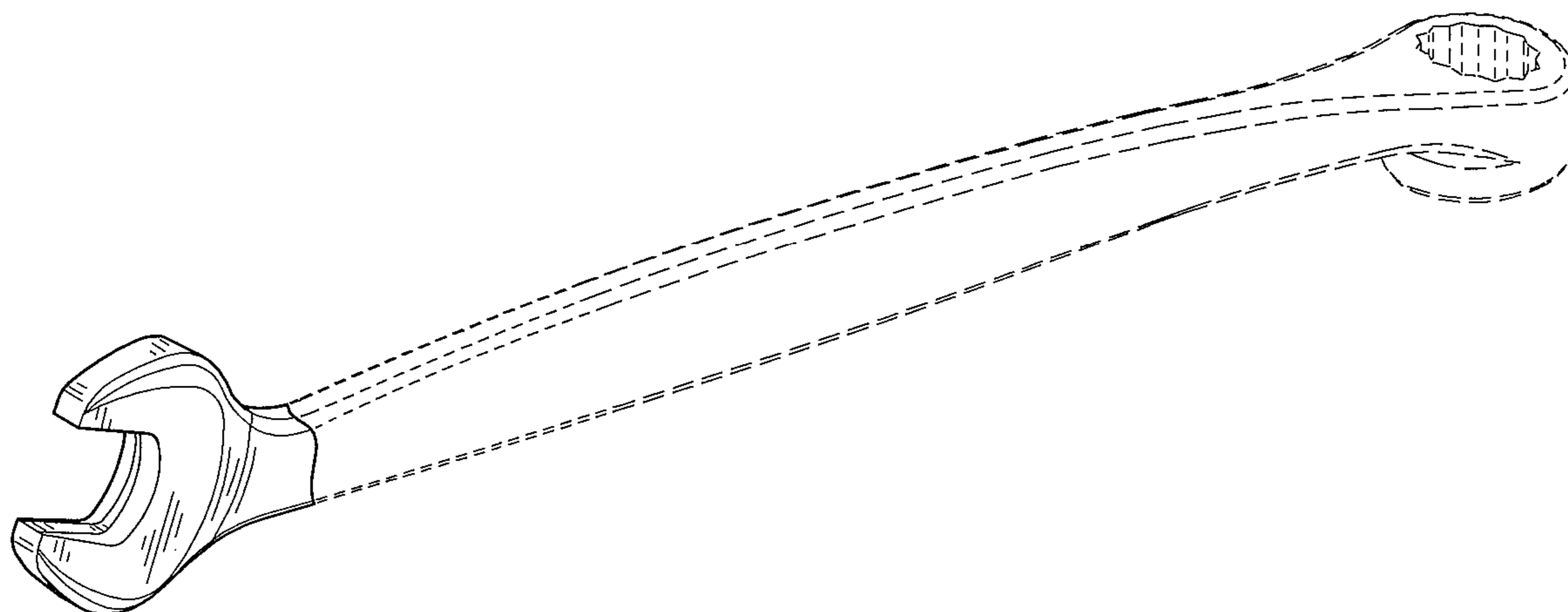
The broken lines shown in the drawings represent unclaimed environmental subject matter.

Primary Examiner—Raphael Barkai

Assistant Examiner—Randall Gholson

(74) *Attorney, Agent, or Firm*—Alan Kamrath; Kamrath & Associates PA

1 Claim, 14 Drawing Sheets



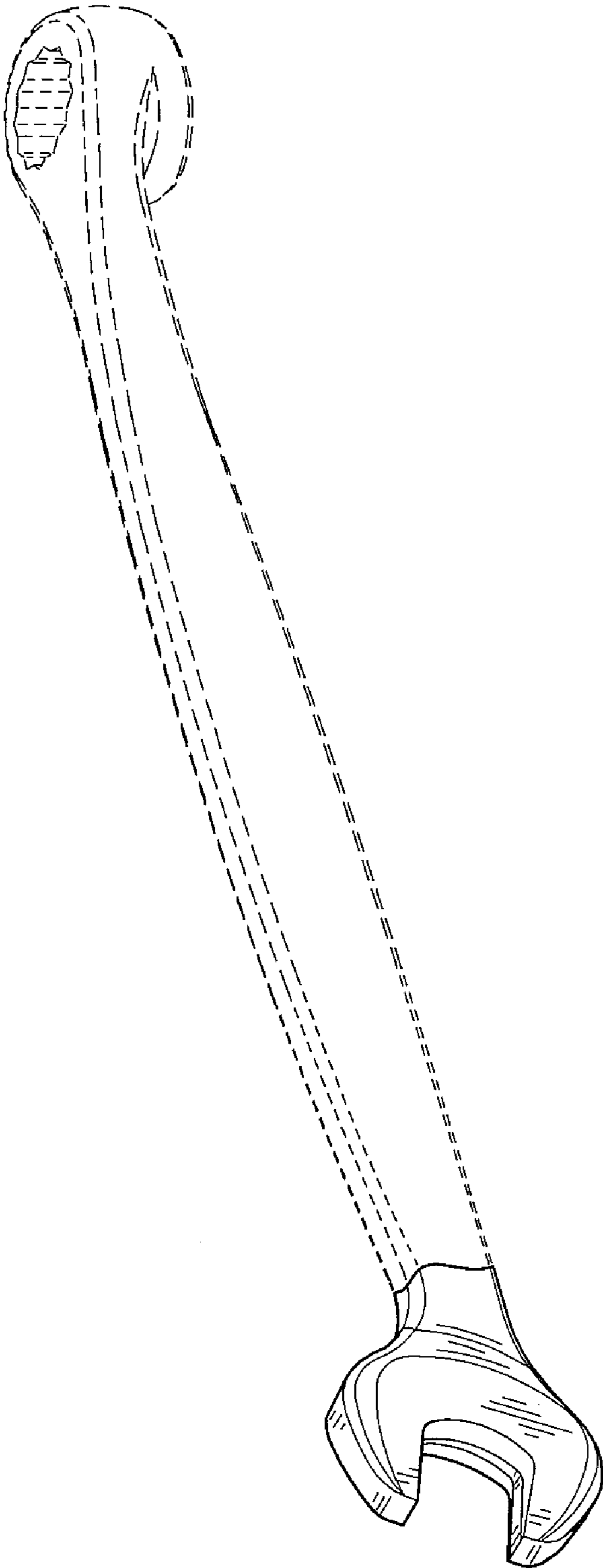


FIG. 1

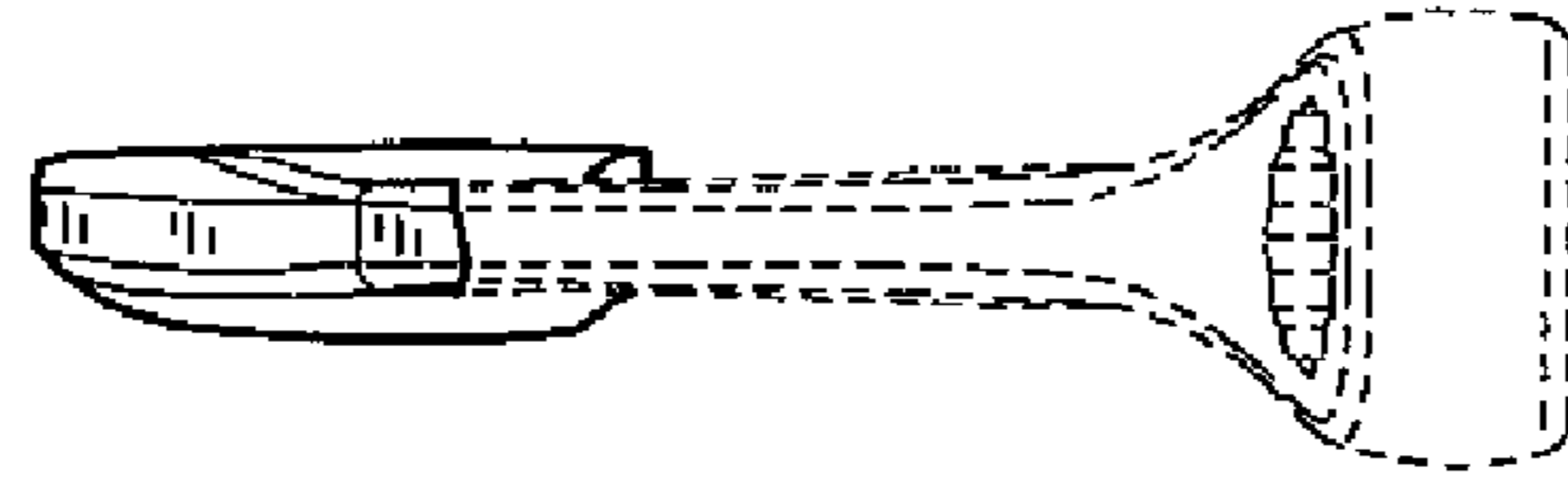


FIG. 3

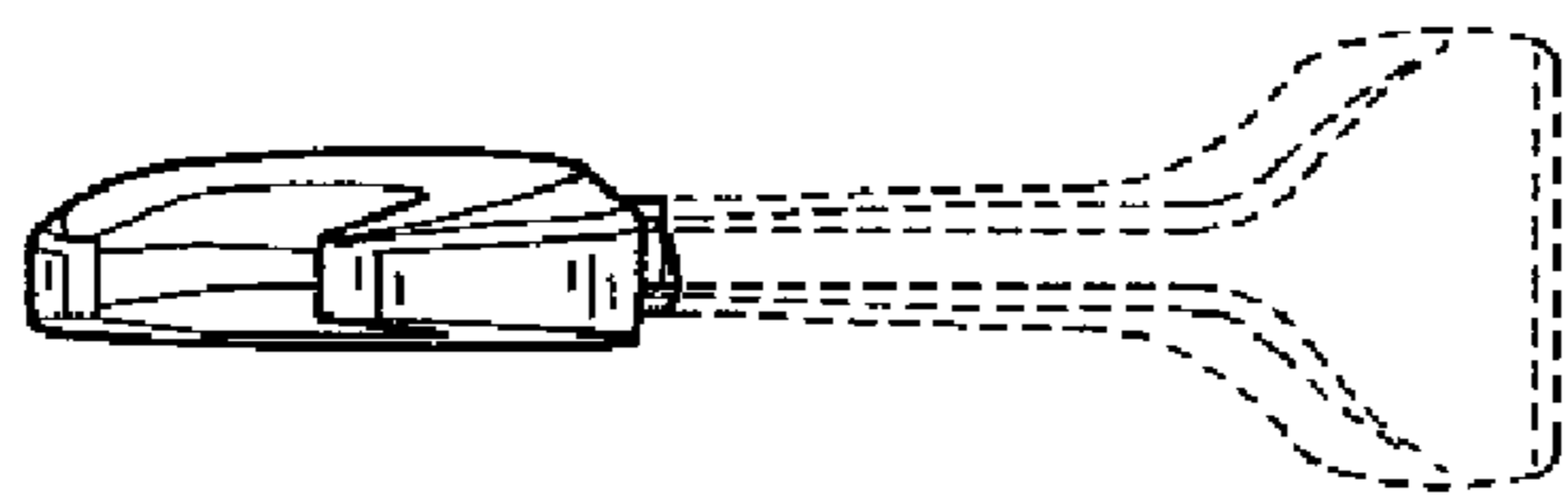


FIG. 2

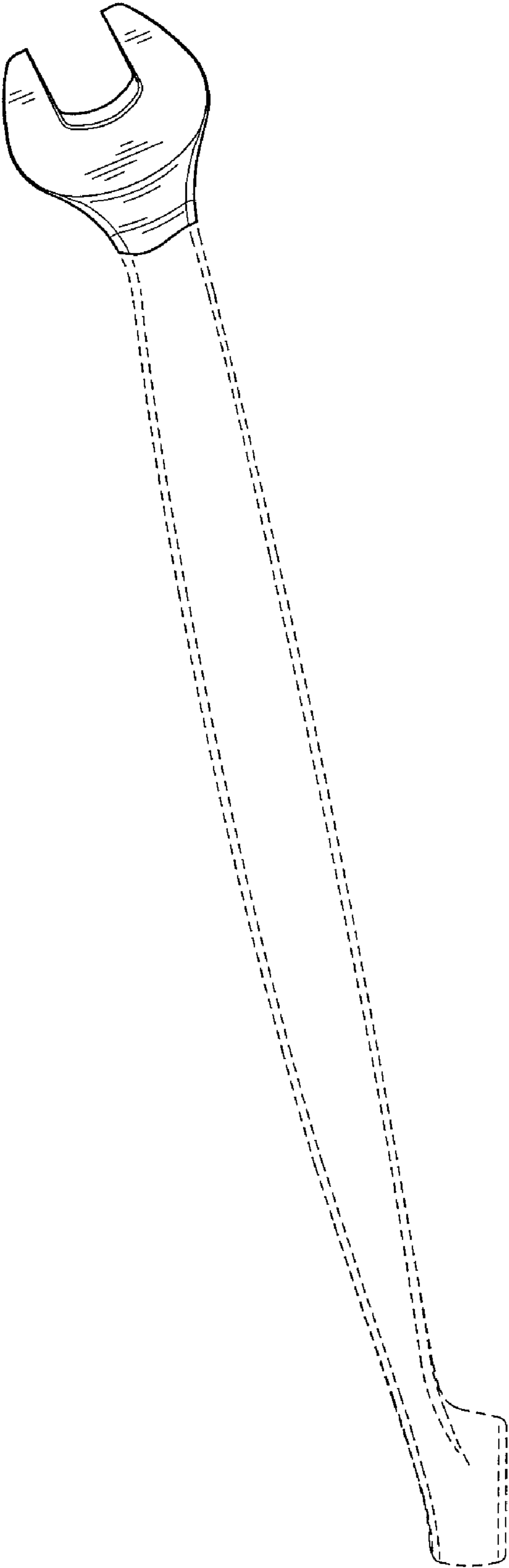


FIG. 4

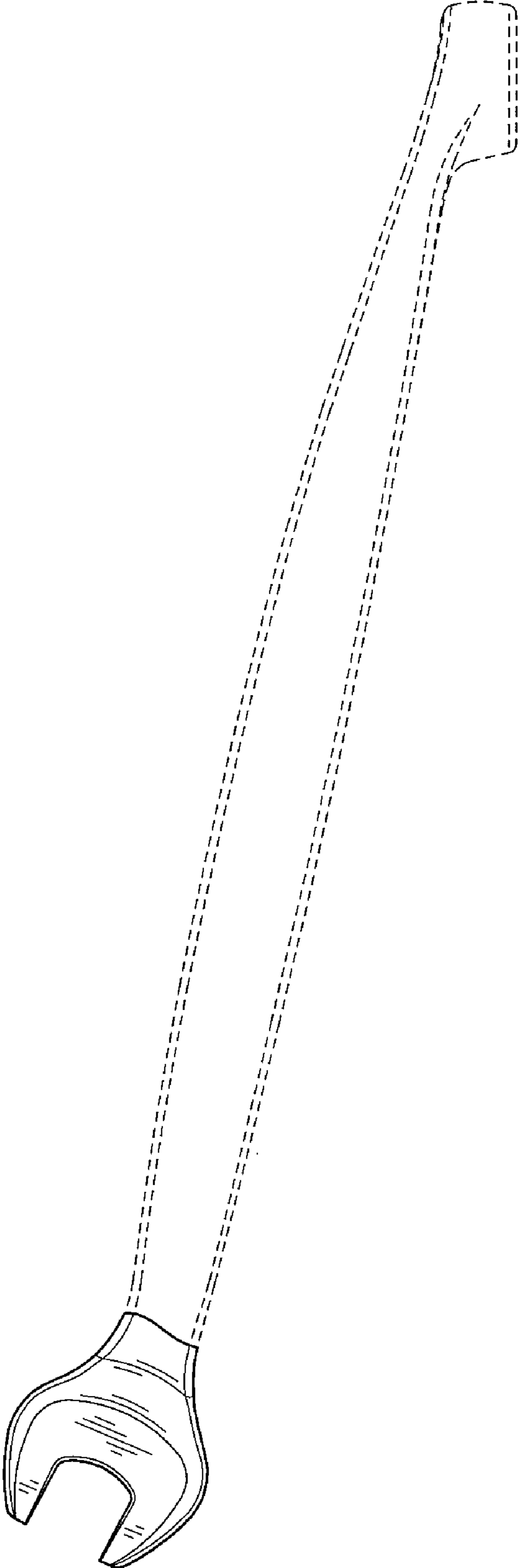


FIG. 5

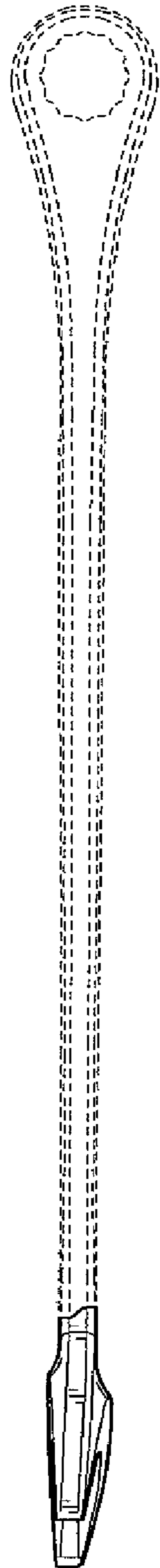


FIG. 6

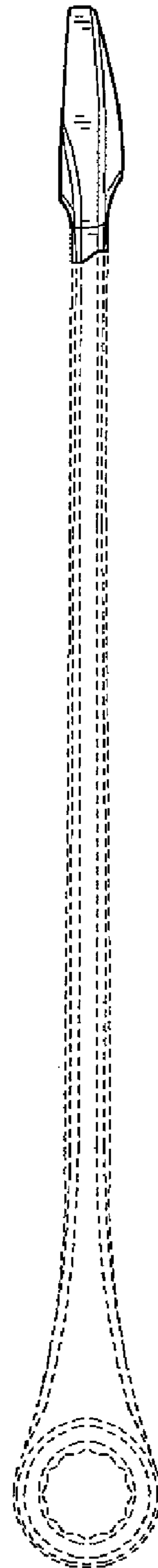


FIG. 7

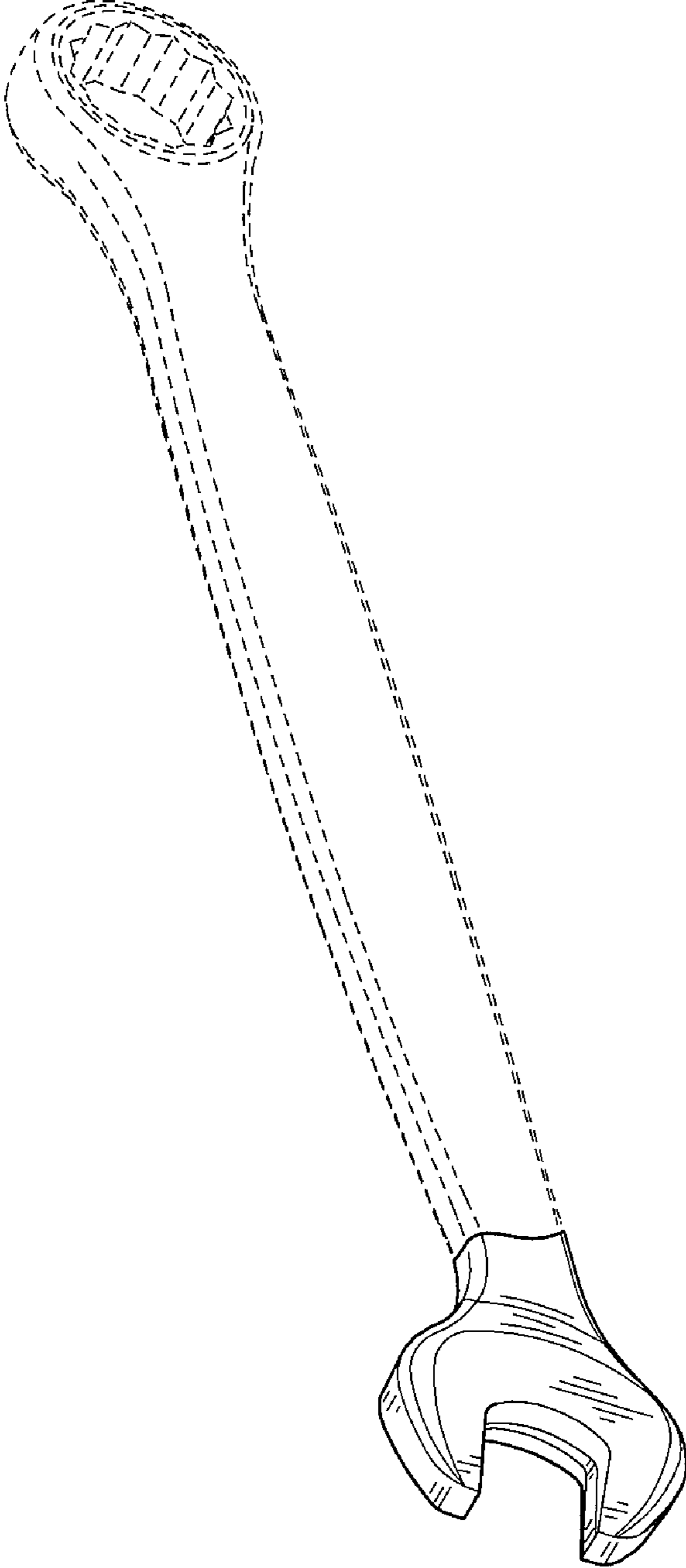


FIG. 8

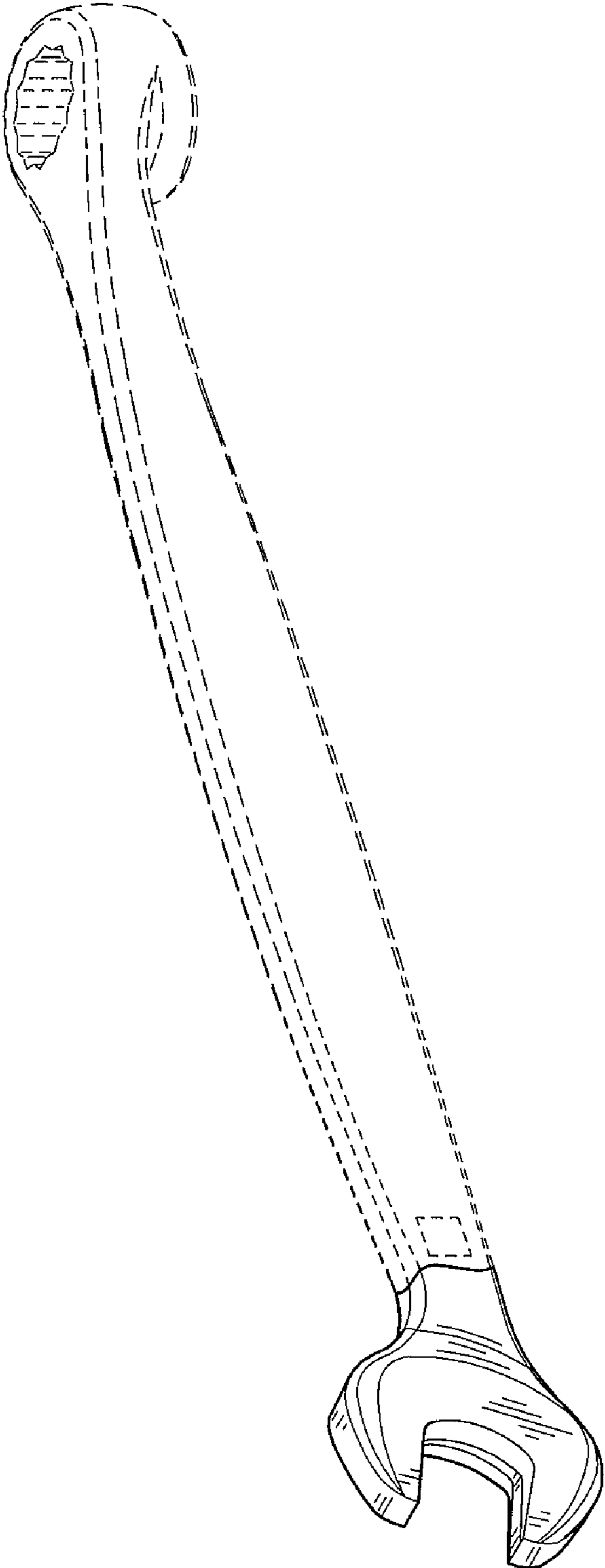


FIG. 9

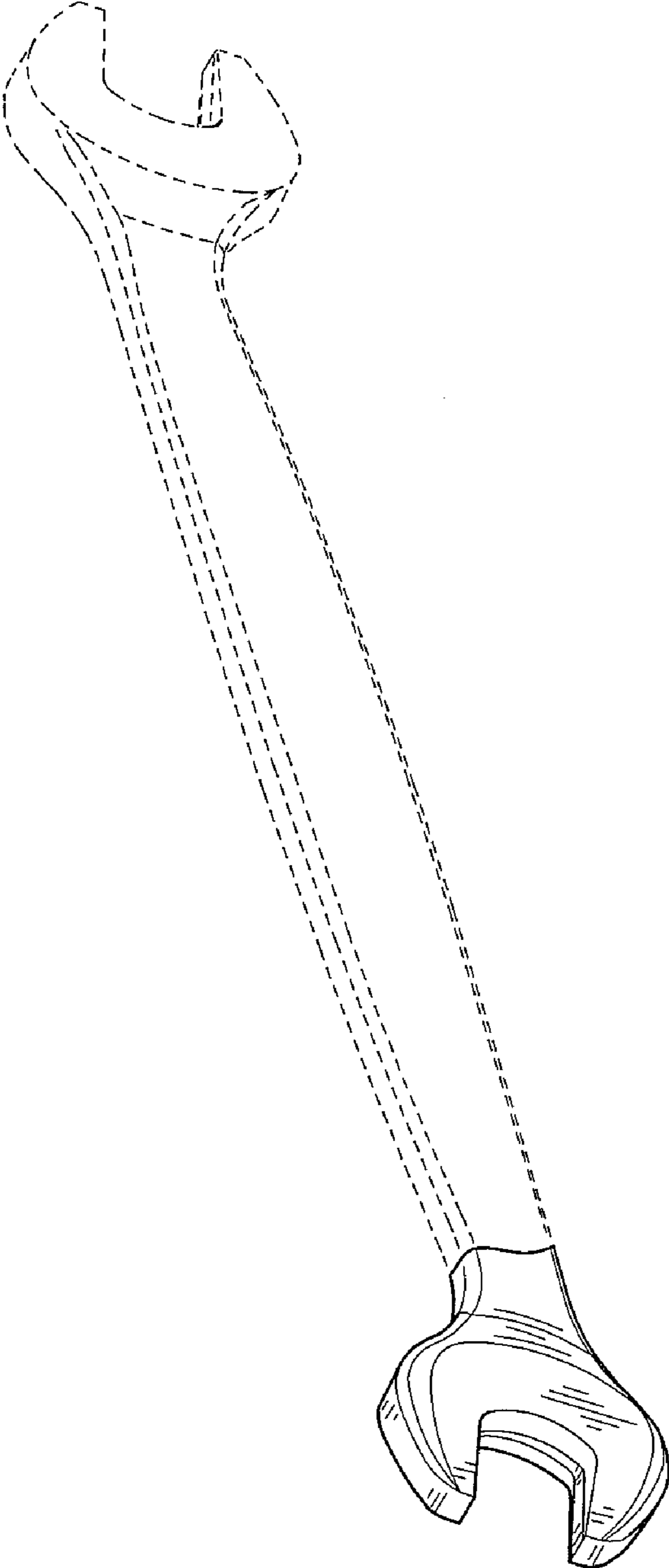


FIG. 10

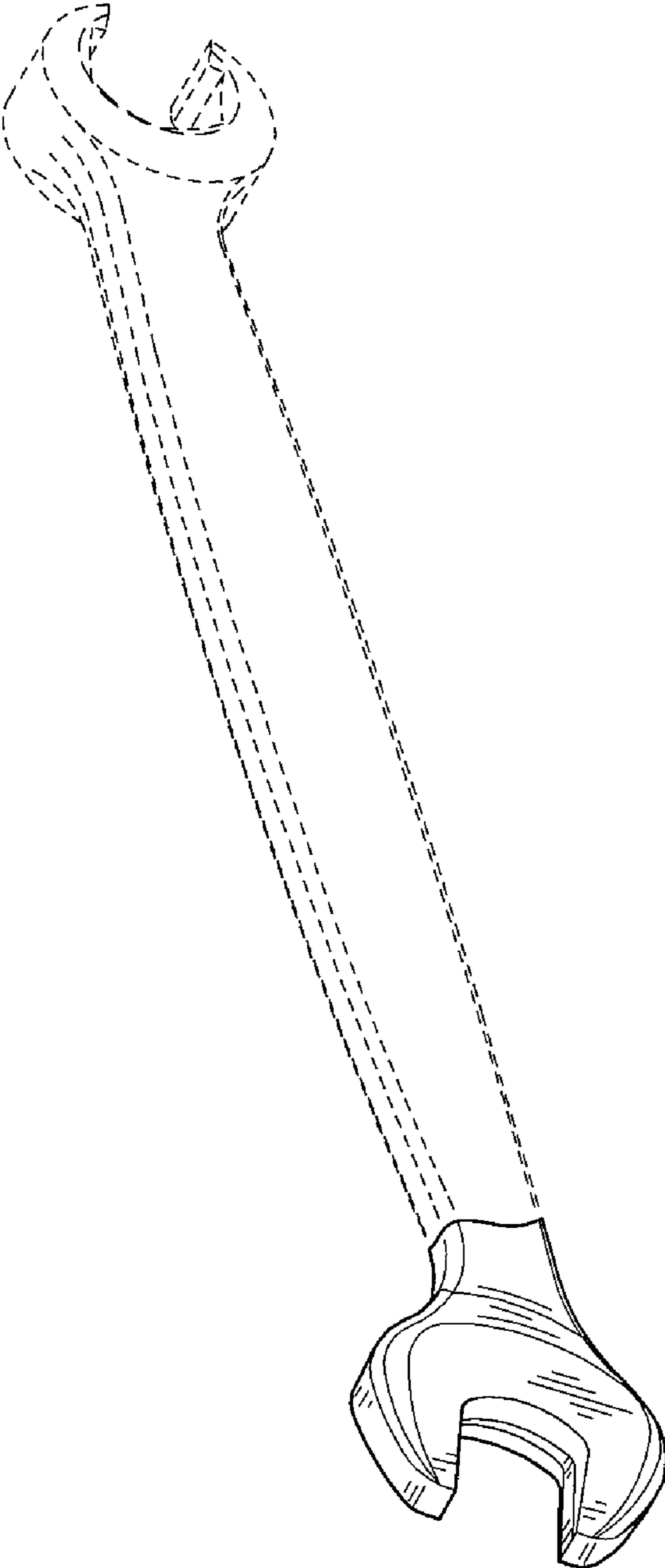


FIG. 11

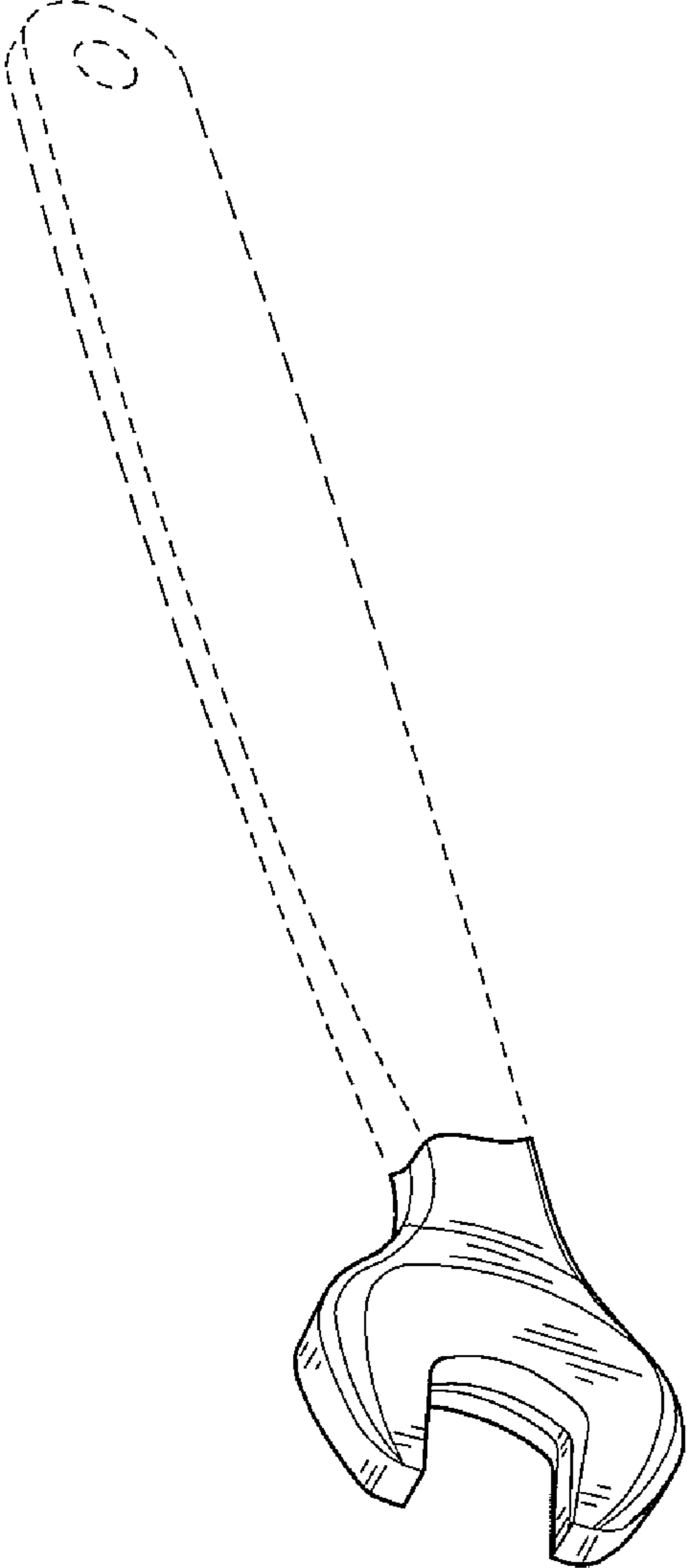


FIG. 12

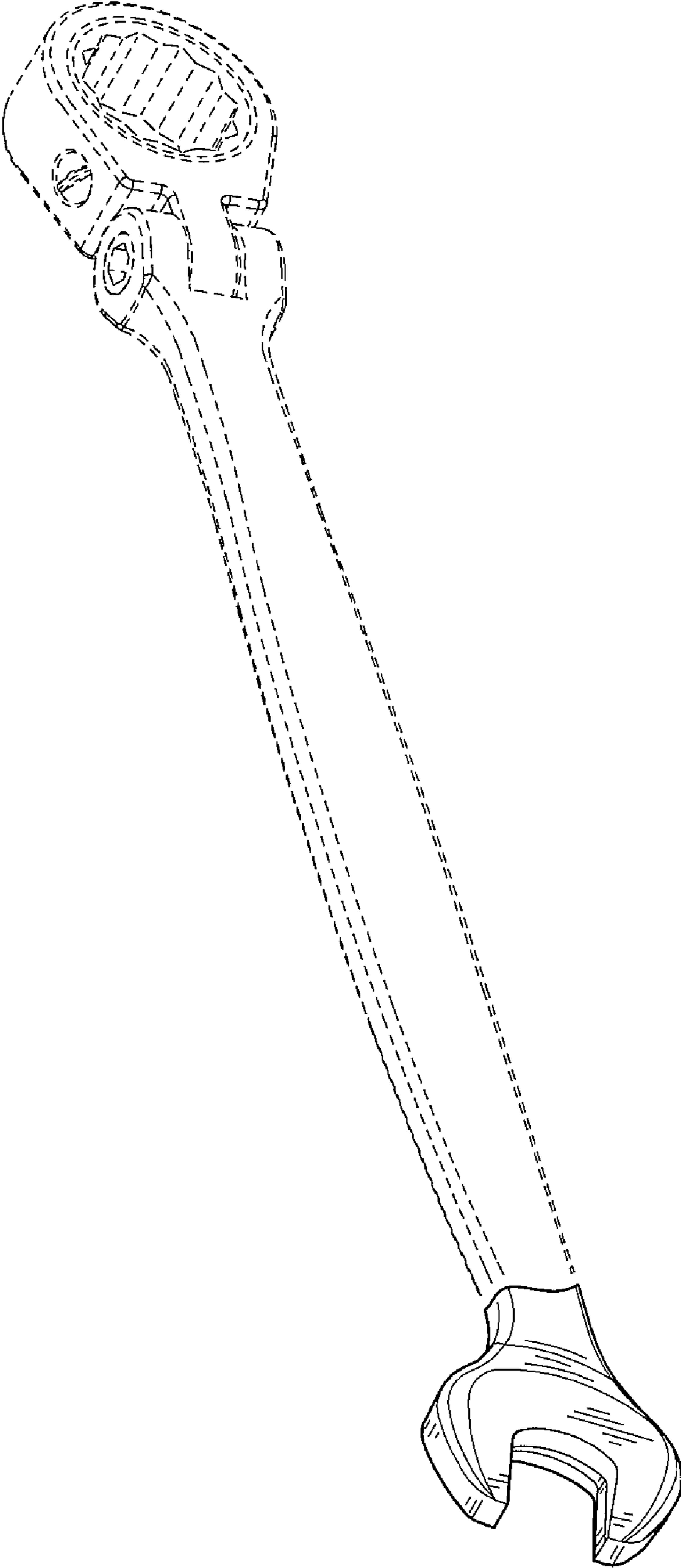


FIG. 13

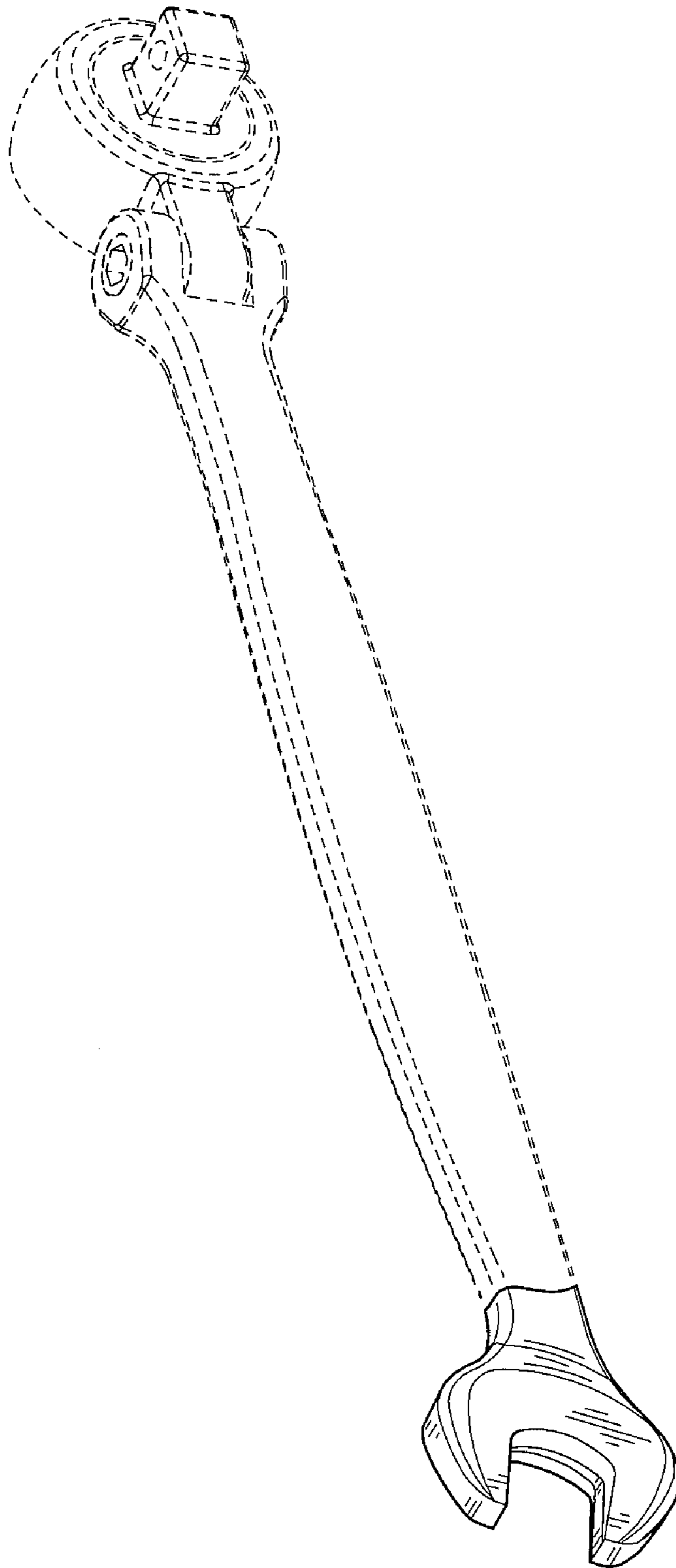


FIG. 14

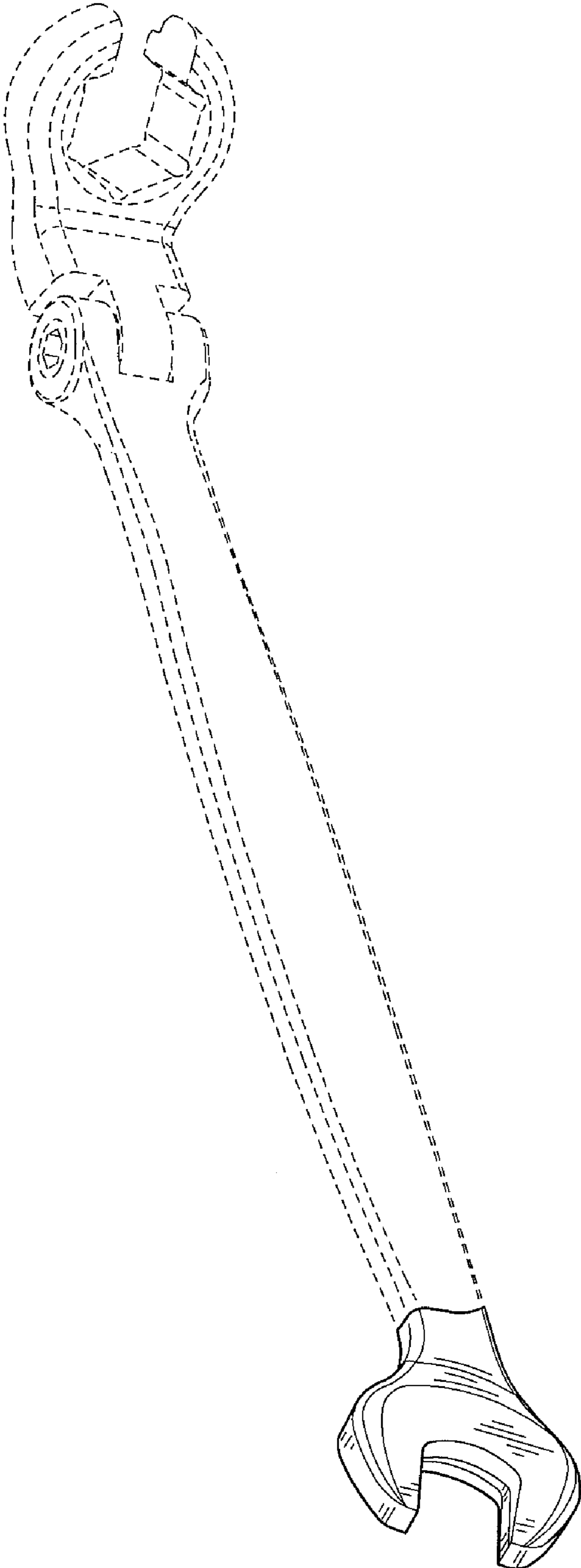


FIG. 15

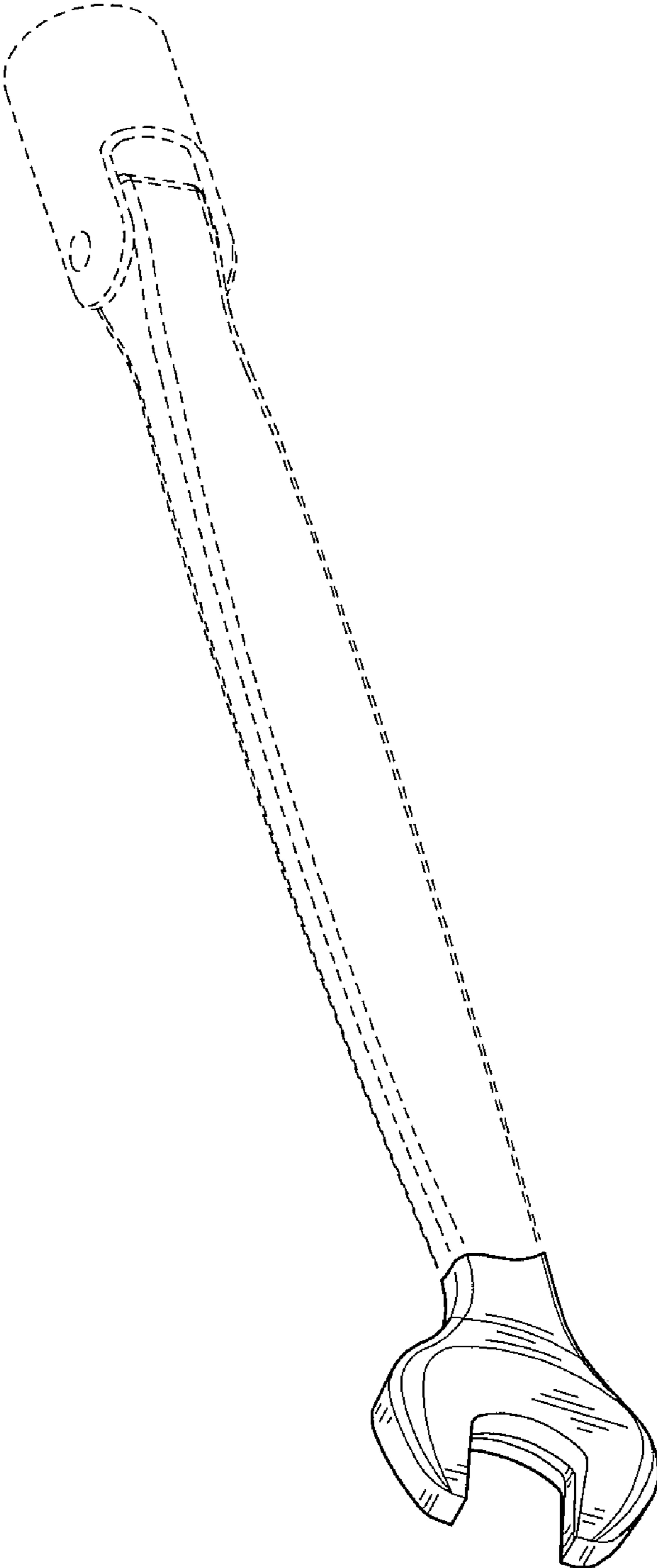


FIG. 16