



US00D886557S

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

(10) **Patent No.:** **US D886,557 S**
(45) **Date of Patent:** **** Jun. 9, 2020**

(54) **RATCHET WRENCH**

(71) Applicant: **FINE FORGE INDUSTRY CORPORATION**, Nantou County (TW)

(72) Inventor: **Kuo-Lung Chen**, Nantou County (TW)

(73) Assignee: **Fine Forge Industry Corporation**, Caotun Township, Nantou County (TW)

(**) Term: **15 Years**

(21) Appl. No.: **29/679,344**

(22) Filed: **Feb. 5, 2019**

(51) **LOC (12) Cl.** **08-05**

(52) **U.S. Cl.**
USPC **D8/25; D8/61**

(58) **Field of Classification Search**
USPC D8/333-336, 339, 324, 649, 104, 105, D8/35, 16, 17, 24, 343, 330-332, 21, 82, D8/14, 85, 25-29, 22, 23, 346, 18, 81, D8/107, 27; D26/26, 51, 38, 35; D24/148, 135, 147; 81/121.1, 124.4, 60, 81/186, 63.1, 119, 489, 177.1, 177.2, 81/177.85, 177.8, 58.1, 471
CPC B25B 13/06; B25B 13/56; B25B 23/14; B25B 23/108; B25B 23/10; B25B 23/00; B25B 13/02; B25B 13/08; B25B 13/46; B25B 13/00; B23B 13/065; B23B 13/04; B23B 13/463; Y10T 29/49986; G09F 3/00; B25G 1/06

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D493,341 S * 7/2004 Chen D8/25
D499,618 S * 12/2004 Lin D8/25
D755,429 S * 5/2016 Huang D22/117
D778,698 S * 2/2017 Huang D8/25
D821,833 S * 7/2018 Liu D8/25

(Continued)

FOREIGN PATENT DOCUMENTS

CN 302061011 * 6/2012
CN 302239569 * 6/2012

(Continued)

OTHER PUBLICATIONS

Crescent ,Crescent 12 Pc. 1/4" Drive 6 Pt. Metric Mechanics Tool Set—CSWS14MM12, Date first available Nov. 5, 2018, [online]retrieved Mar. 20, 2020, available from internet, www.amazon.com (Year: 2018).*

(Continued)

Primary Examiner — Keli L Hill

Assistant Examiner — Sara S Sahneh

(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

(57) **CLAIM**

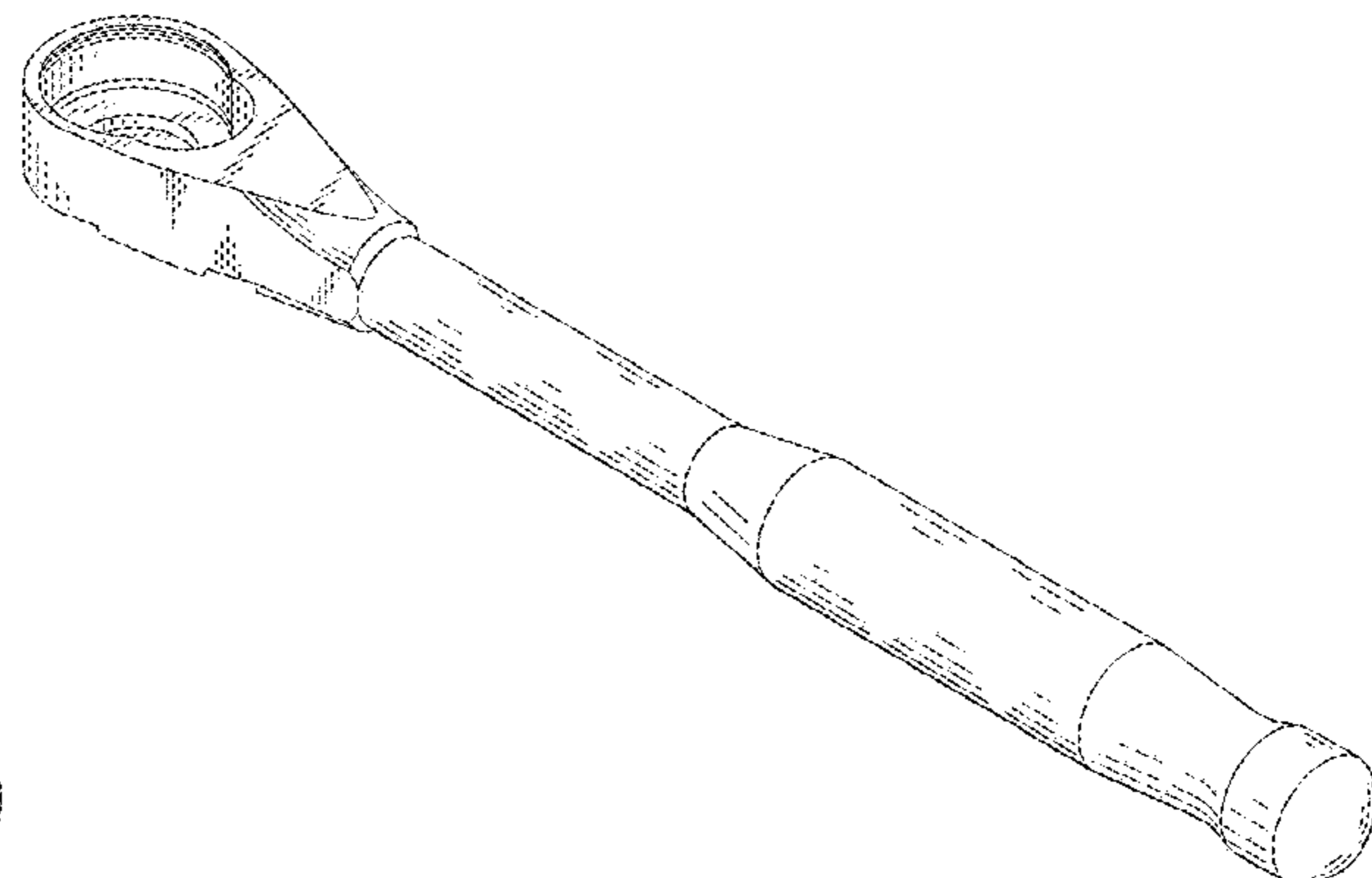
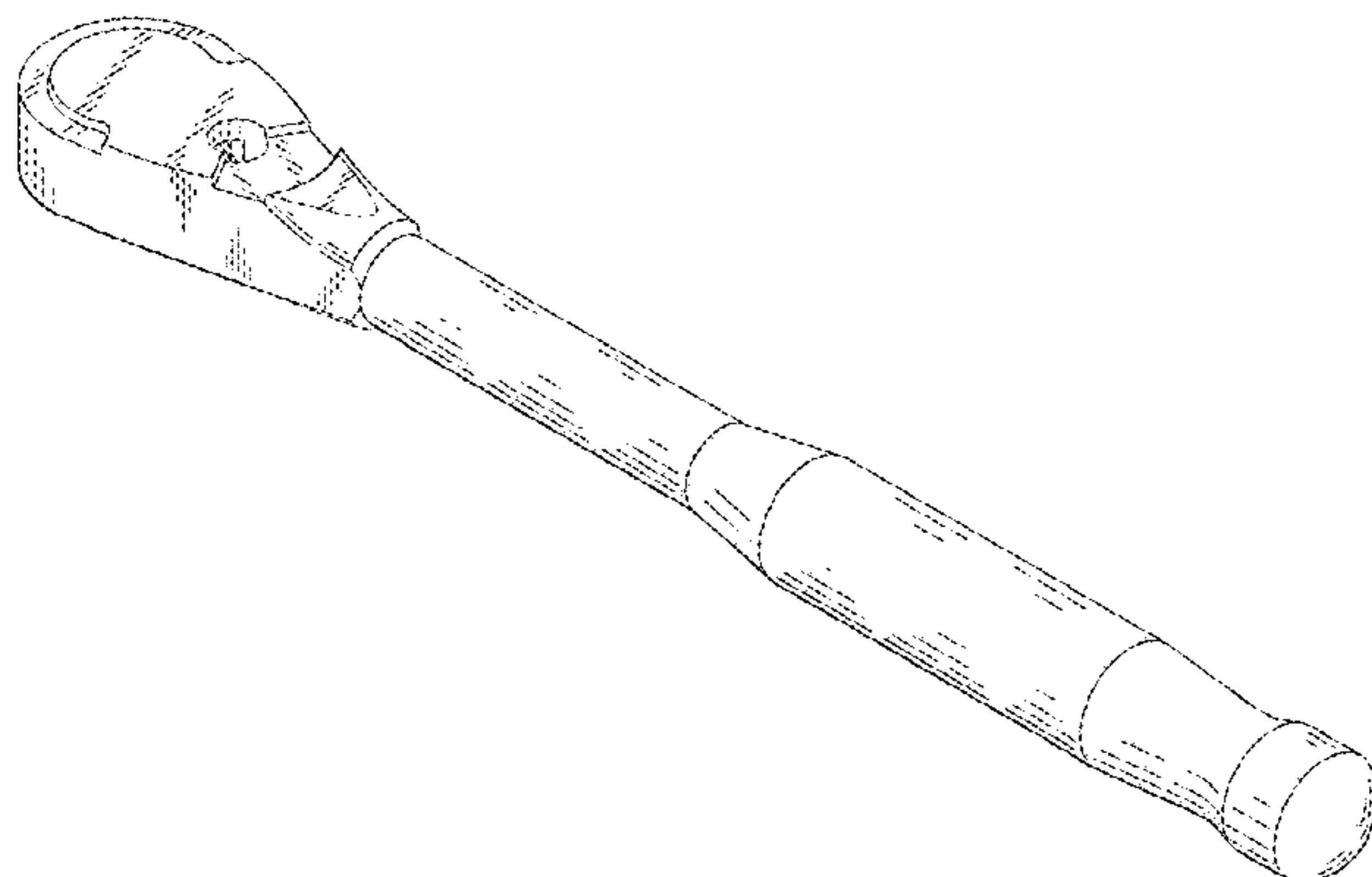
I claim the ornamental design for a ratchet wrench, as shown and described.

DESCRIPTION

FIG. 1 is a top, front, right 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 side view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof;
FIG. 8 is a bottom, rear, right perspective view thereof; and,
FIG. 9 is a partial cross-section view taken along the line 9-9 in FIG. 6.

The broken lines in FIG. 9 illustrate portions of the ratchet wrench which form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D828,128 S * 9/2018 Solar D8/25
2008/0098859 A1* 5/2008 Hu B25B 13/461
81/126
2014/0230611 A1* 8/2014 Liu B25B 13/06
81/124.7
2016/0375573 A1* 12/2016 Huang B25G 1/043
81/177.2

FOREIGN PATENT DOCUMENTS

CN 303205165 * 11/2014
CN 305289917 * 8/2018
GB 6051787 * 1/2019
JP D1208476 * 1/2003
JP D1614696 * 12/2017
KR 300829538.0000 * 8/2015

OTHER PUBLICATIONS

Gearwrench, Gearwrench 3/8" Drive 84 Tooth Teardrop Ratchet 8-1/4"—81211F, Date first available Sep. 24, 2012, [online]retrieved Mar. 20, 2020, available from internet, www.amazon.com (Year: 2012).*

Ares, Ares 42002—3/8-Inch Drive 90-Tooth Full Polish Ratchet—Premium Chrome Vanadium Steel Construction & Chrome Plated Finish, Date first available Jan. 18, 2019, [online]retrieved Mar. 20, 2020, available from internet, www.amazon.com (Year: 2019).*

* cited by examiner

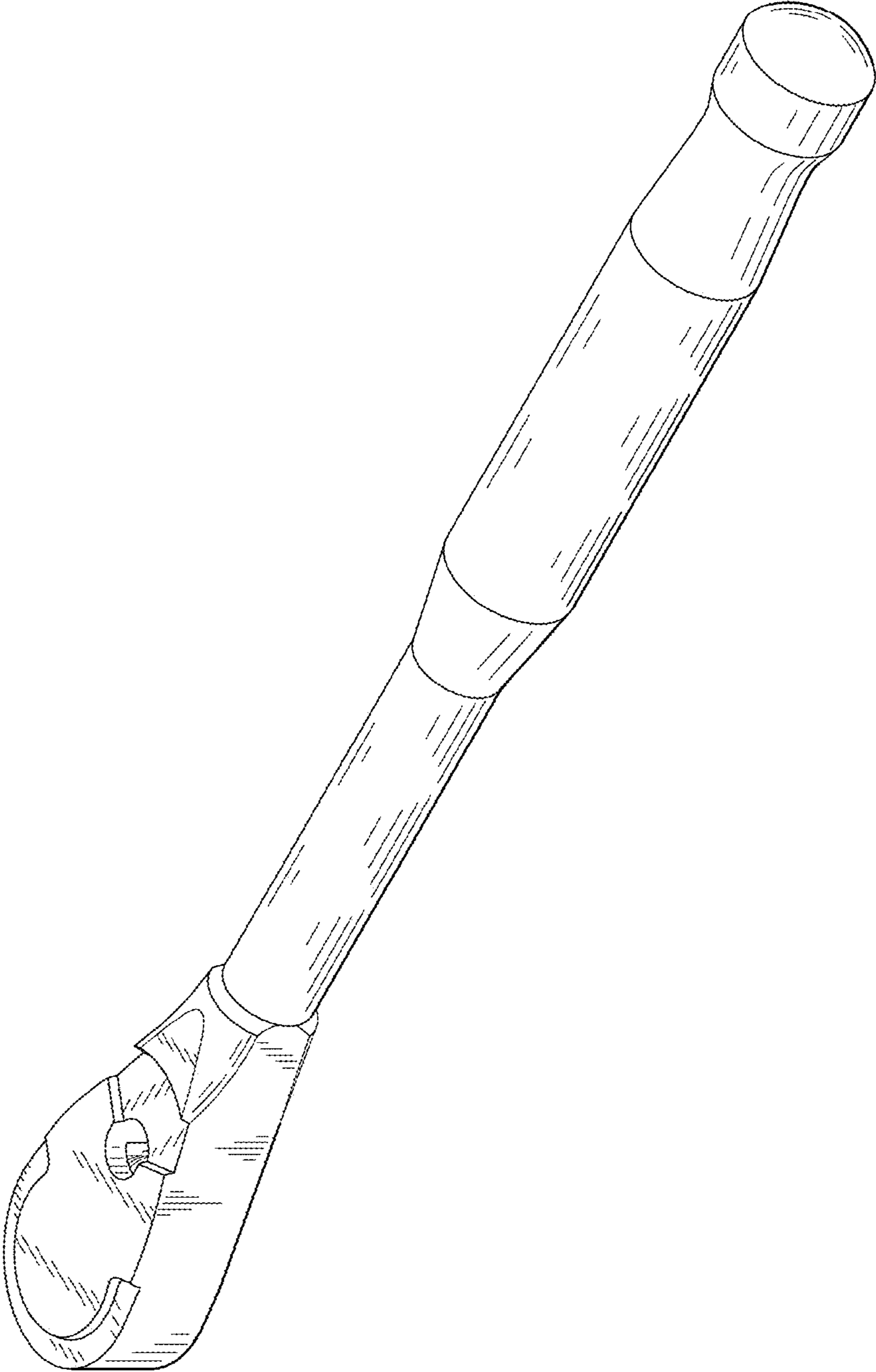


FIG. 1

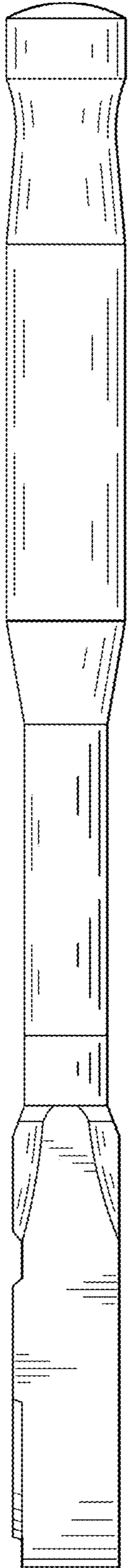


FIG. 2

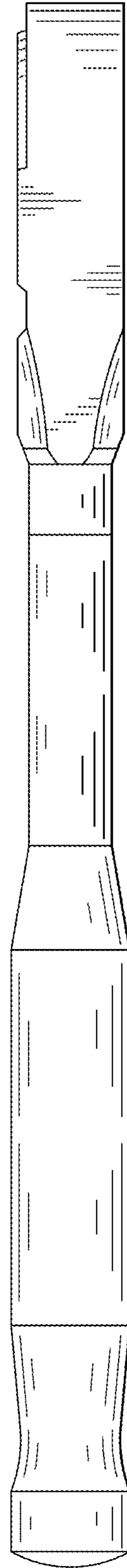


FIG. 3

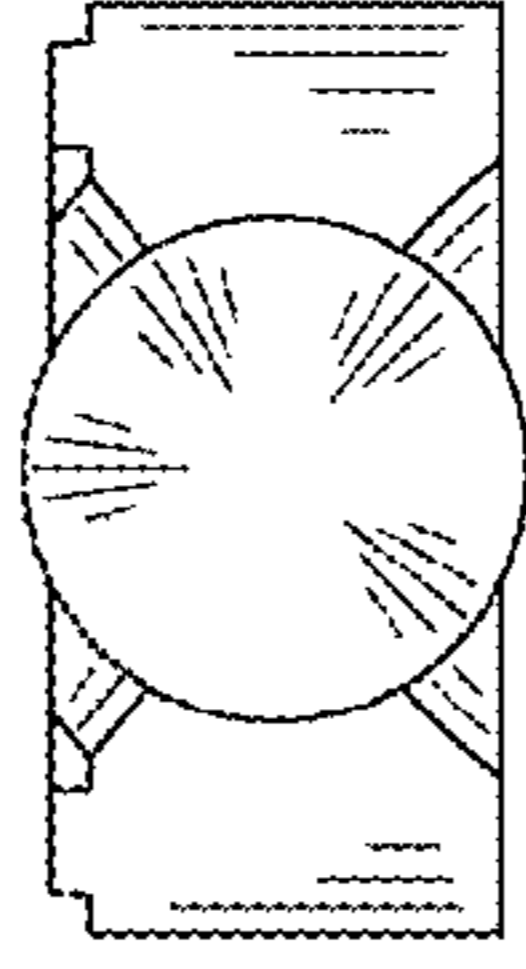


FIG. 5

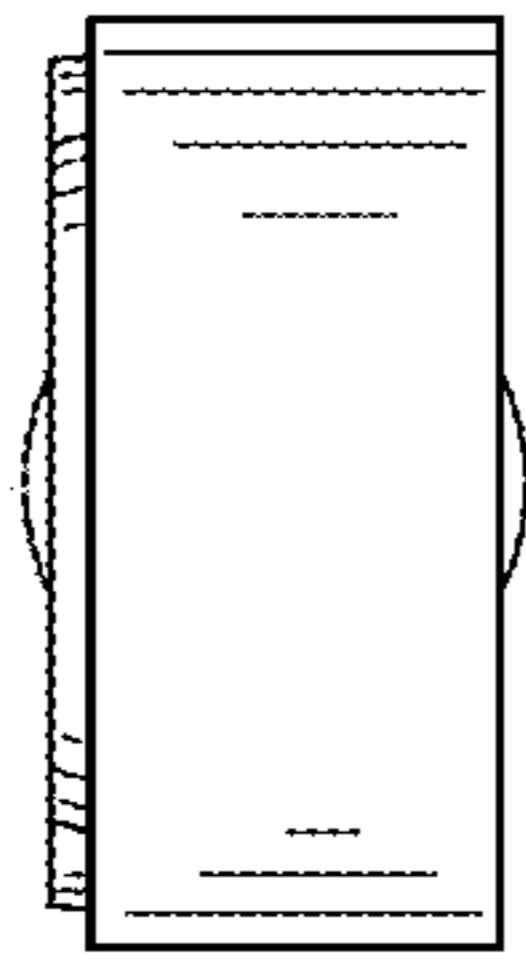


FIG. 4

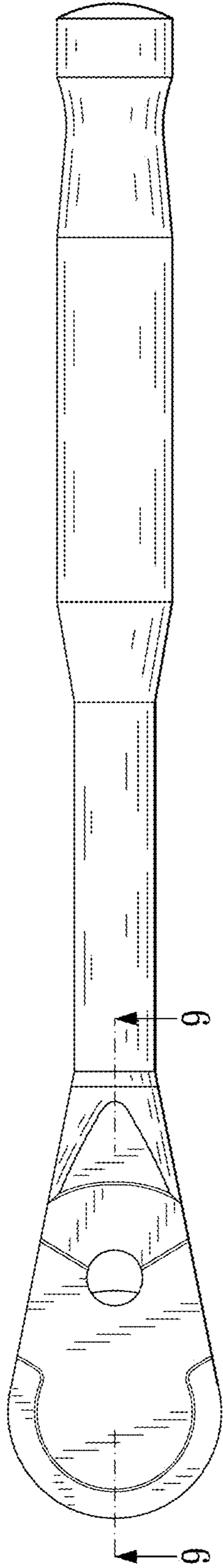


FIG. 6

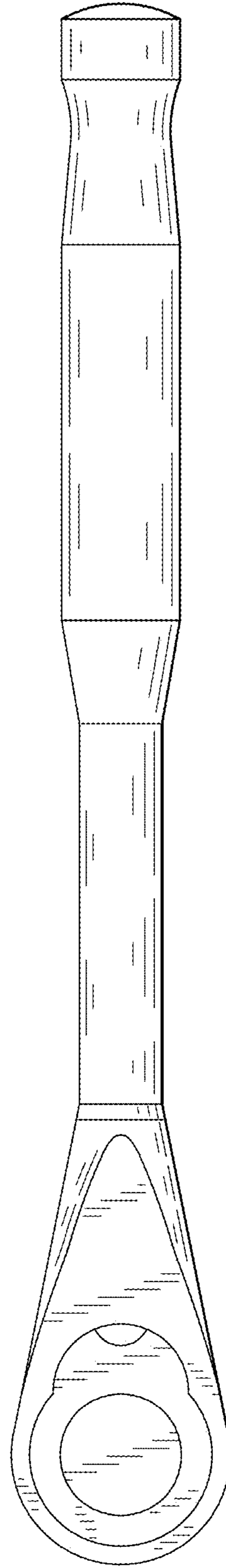


FIG. 7

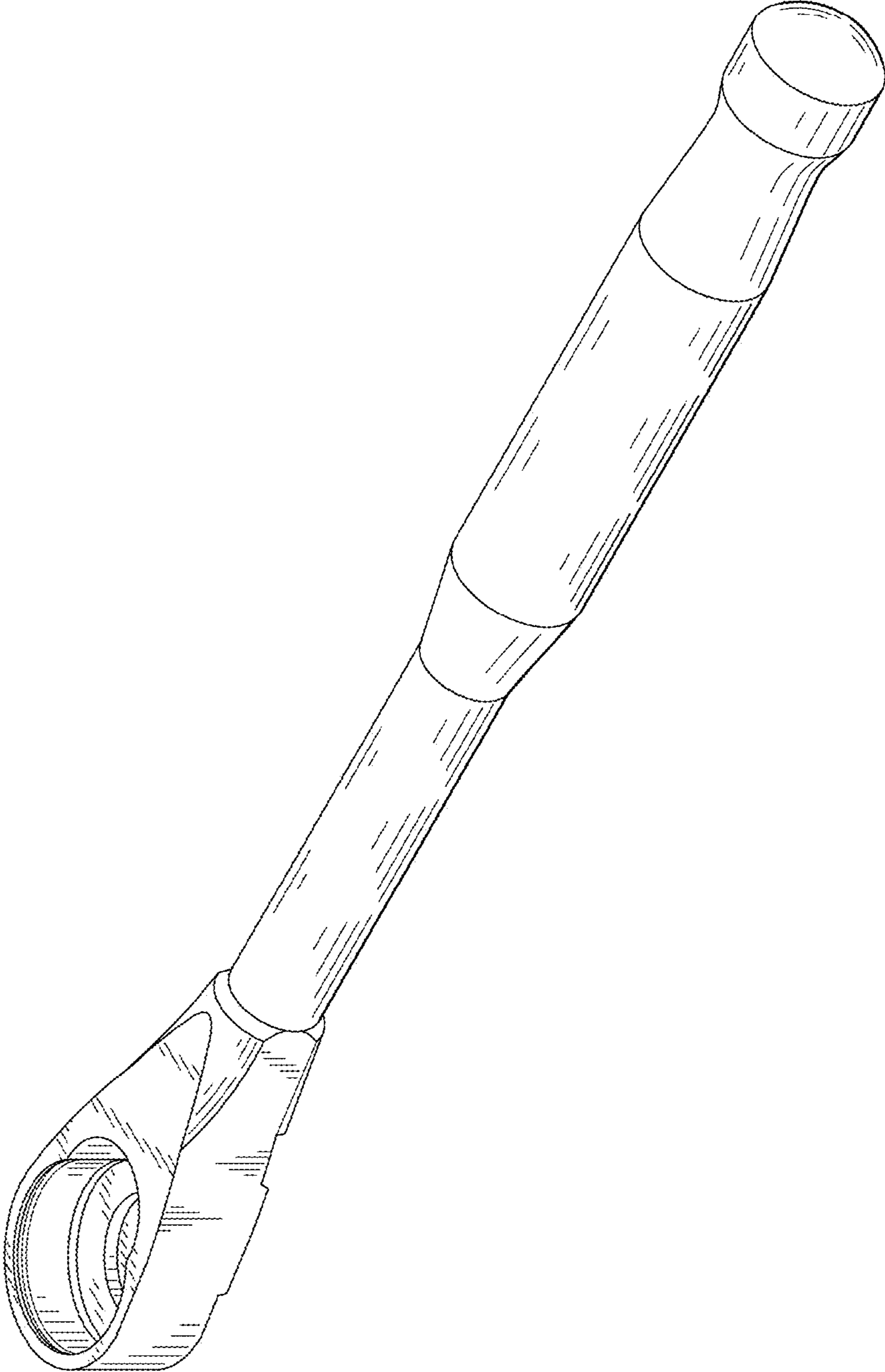


FIG. 8

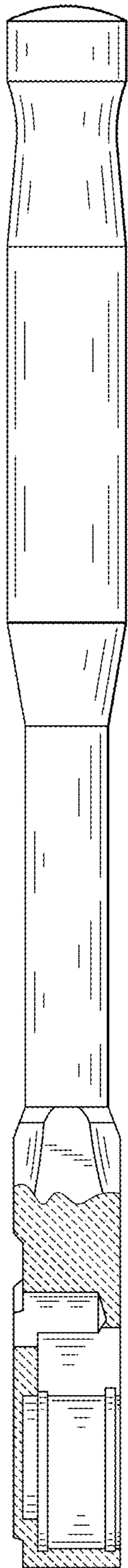


FIG. 9