



US00D947630S

(12) **United States Design Patent**  
**DeBaker et al.**

(10) **Patent No.:** **US D947,630 S**  
(45) **Date of Patent:** **\*\* Apr. 5, 2022**

(54) **WRENCH**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Milwaukee Electric Tool Corporation,**  
Brookfield, WI (US)

CN 1262640 A 8/2000  
CN 1370659 A 9/2002

(Continued)

(72) Inventors: **Joseph M. DeBaker,** Greenfield, WI  
(US); **Andrew M. Tuchscherer,**  
Wauwatosa, WI (US); **Steven W.**  
**Hyma,** Milwaukee, WI (US)

OTHER PUBLICATIONS

(73) Assignee: **Milwaukee Electric Tool Corporation,**  
Brookfield, WI (US)

Milwaukees, Ratcheting Box Wrench, Date first available Feb. 26,  
2020, [online]retrieved Jun. 4, 2021,available from [https://www.amazon.com/MILWAUKEE-Linemanâ€s-Insulated-Ratcheting-48-22-9212/dp/B07VWKRPRM/ref=sr\\_1\\_31?dchild=1&keywords=milwaukee+wrench&qid=1622830764&sr=8-31](https://www.amazon.com/MILWAUKEE-Linemanâ€s-Insulated-Ratcheting-48-22-9212/dp/B07VWKRPRM/ref=sr_1_31?dchild=1&keywords=milwaukee+wrench&qid=1622830764&sr=8-31) (Year: 2020).\*

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

(Continued)

(21) Appl. No.: **29/769,508**

*Primary Examiner* — Keli L Hill

(22) Filed: **Feb. 5, 2021**

*Assistant Examiner* — Sara S Sahneh

**Related U.S. Application Data**

(74) *Attorney, Agent, or Firm* — Reinhart Boerner Van  
Deuren s.c.

(62) Division of application No. 29/670,466, filed on Nov.  
15, 2018, now Pat. No. Des. 912,483.

(51) **LOC (13) Cl.** ..... **08-05**

(57) **CLAIM**

(52) **U.S. Cl.**  
USPC ..... **D8/25; D8/107**

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

(58) **Field of Classification Search**  
USPC ..... D8/14, 16, 17, 21–29, 83, 80, 94, 97,  
D8/107, 67, 58, 54, 39, 303  
CPC ..... B25B 13/14; B25B 13/06; B25B 13/04;  
B25B 13/46; B25B 13/00; B25B 7/02;  
B25B 13/48; B25B 13/16; B25B 13/505;  
B25B 13/5058; B25B 23/0007; B25B  
13/28; B25B 23/147; B25B 13/08; B25B  
13/56; B25B 23/0035; B25B 13/065;  
B25B 13/465; B25B 13/463

**DESCRIPTION**

See application file for complete search history.

FIG. 1 is a front perspective view of the claimed design;  
FIG. 2 is a rear perspective view of the claimed design of  
FIG. 1;  
FIG. 3 is a front view of the claimed design of FIG. 1;  
FIG. 4 is a rear view of the claimed design of FIG. 1;  
FIG. 5 is a left side view of the claimed design of FIG. 1;  
FIG. 6 is a right side view of the claimed design of FIG. 1;  
FIG. 7 is a top view of the claimed design of FIG. 1; and,  
FIG. 8 is a bottom view of the claimed design of FIG. 1.  
The broken lines shown are included for the purposes of  
illustrating portions of the wrench that form no part of the  
claim.

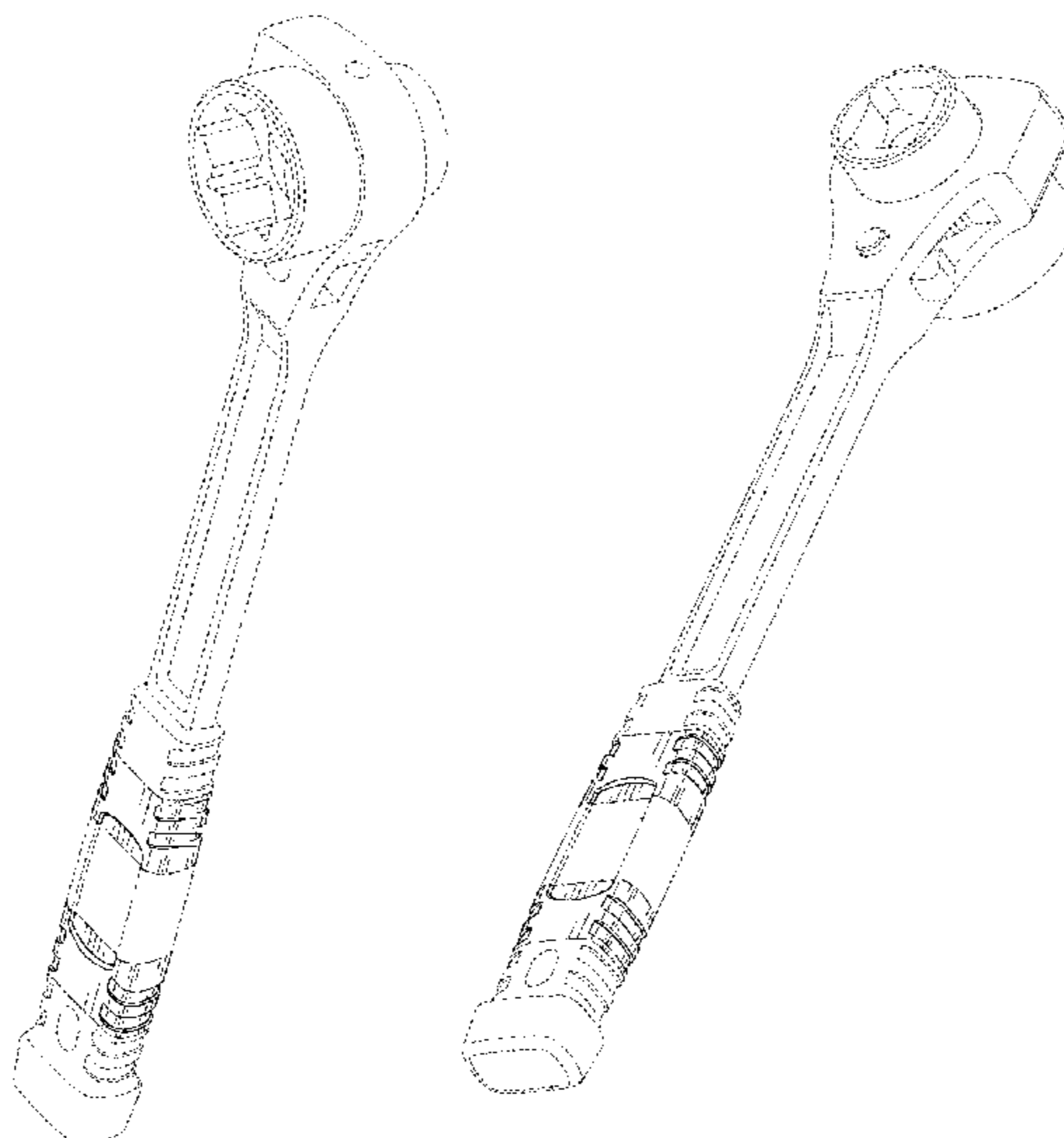
(56) **References Cited**

U.S. PATENT DOCUMENTS

D332,730 S 1/1993 Usuda  
D372,409 S 8/1996 Wright

(Continued)

**1 Claim, 5 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

5,636,557 A 6/1997 Ma  
 5,873,286 A 2/1999 Van Lenten  
 D417,373 S 12/1999 Neyton  
 6,460,431 B1 10/2002 Chen  
 6,467,378 B1 10/2002 Chen  
 6,539,825 B1 4/2003 Lin  
 D492,556 S 7/2004 Barry  
 D512,287 S 12/2005 Li  
 D515,373 S 2/2006 Chen  
 D518,342 S \* 4/2006 Hsien ..... D8/21  
 D519,354 S \* 4/2006 Hay ..... D23/236  
 7,044,029 B1 5/2006 Hopper, Jr. et al.  
 7,100,477 B2 9/2006 Lee  
 D535,172 S \* 1/2007 Engvall ..... D8/107  
 7,178,429 B2 2/2007 Lin  
 D543,810 S 6/2007 Rauckman  
 D559,054 S 1/2008 Tuan Mu  
 D559,650 S \* 1/2008 Tseng ..... D8/107  
 D566,497 S 4/2008 Wang  
 D581,766 S \* 12/2008 Heneen ..... D8/107  
 D602,755 S 10/2009 Junkers  
 D605,007 S 12/2009 Robinson  
 D605,009 S 12/2009 Robinson  
 D617,617 S 6/2010 Garcia et al.  
 D634,601 S 3/2011 Good  
 8,051,747 B1 11/2011 Tsai  
 D650,650 S 12/2011 Chen  
 8,104,381 B1 1/2012 Chen  
 D654,337 S \* 2/2012 Huang ..... D8/25  
 D657,215 S 4/2012 Kriz et al.  
 D658,459 S \* 5/2012 Meholovitch ..... D8/25  
 D658,460 S \* 5/2012 Wang ..... D8/25  
 D665,239 S 8/2012 Tillet  
 D682,067 S \* 5/2013 Tillet ..... D8/107  
 D704,521 S 5/2014 Su  
 D712,222 S 9/2014 Cummings  
 8,857,296 B2 10/2014 Huang  
 8,943,928 B2 2/2015 Feng  
 D724,912 S \* 3/2015 Martone ..... D8/22  
 D729,024 S 5/2015 Lin  
 9,067,308 B2 6/2015 Lai  
 D744,797 S 12/2015 Wang  
 D748,443 S 2/2016 Ou  
 D753,970 S 4/2016 Ou  
 D756,181 S \* 5/2016 Lee ..... D8/25  
 D773,276 S \* 12/2016 Ou ..... D8/107  
 D773,277 S \* 12/2016 Houle ..... D8/307  
 D781,118 S 3/2017 Rauckman  
 D785,422 S \* 5/2017 Liu ..... D8/25  
 9,868,189 B2 1/2018 Lin  
 D819,423 S \* 6/2018 Anderson ..... D8/83  
 D820,056 S 6/2018 Zhang  
 D821,169 S \* 6/2018 Hsu ..... D8/25  
 D823,090 S \* 7/2018 Ruha ..... D8/107  
 D826,665 S \* 8/2018 Yu ..... D8/25  
 D835,491 S \* 12/2018 Zhang ..... D8/107  
 D863,022 S \* 10/2019 Papafagos ..... D8/303  
 D924,658 S \* 7/2021 Lin ..... D8/107  
 2003/0005795 A1 1/2003 McCann  
 2003/0051583 A1 3/2003 Lin  
 2003/0213342 A1 11/2003 Wu  
 2008/0257117 A1 10/2008 Yang  
 2010/0326246 A1 \* 12/2010 Chang ..... B25B 13/463  
 81/60  
 2012/0222523 A1 9/2012 Feng  
 2013/0047791 A1 2/2013 Hsu  
 2013/0152742 A1 6/2013 Chen  
 2014/0182421 A1 \* 7/2014 Chang ..... B25B 23/0035  
 81/124.3

2014/0196577 A1 7/2014 Chen  
 2014/0290449 A1 10/2014 Hsieh  
 2015/0196994 A1 7/2015 Huang  
 2015/0290779 A1 10/2015 Lai  
 2015/0314425 A1 11/2015 Mingarelli  
 2016/0016294 A1 \* 1/2016 Chang ..... B25G 1/066  
 81/124.4  
 2017/0157755 A1 \* 6/2017 Wang ..... B25B 23/0035  
 2017/0297192 A1 \* 10/2017 Ou ..... B25G 3/02

FOREIGN PATENT DOCUMENTS

CN 3340227 \* 12/2003  
 CN 300717656 \* 12/2006  
 CN 200974205 Y 11/2007  
 CN 201342652 Y 11/2009  
 CN 201342653 Y 11/2009  
 CN 201799968 U 4/2011  
 CN 301684697 \* 5/2011  
 CN 301703556 \* 5/2011  
 CN 301852042 \* 10/2011  
 CN 202344447 U 7/2012  
 CN 302999173 11/2014  
 CN 303401530 10/2015  
 CN 204868675 U 12/2015  
 CN 303632578 S 4/2016  
 CN 103286716 B 9/2016  
 CN 304182974 \* 12/2016  
 CN 304304678 \* 5/2017  
 CN 304885423 \* 2/2018  
 CN 306557946 \* 12/2020  
 DE 4320253 12/1994  
 DE 9321204 7/1996  
 DE 20105231 6/2001  
 DE 20110868 9/2001  
 DE 20200363 4/2002  
 DE 202012104590 3/2013  
 DE 102014112878 3/2016  
 EP 810068 B1 2/2000  
 EP 994765 A1 4/2000  
 EP 2633952 A2 9/2013  
 GB 2098084 \* 12/2000  
 RU 00088389 \* 6/2012  
 TW M444911 1/2013  
 TW D145459 7/2013  
 TW D155714 9/2013  
 TW 201350277 12/2013  
 TW I453095 9/2014  
 WO WO9856539 A1 12/1998  
 WO WO2008128395 A1 10/2008

OTHER PUBLICATIONS

Klein Tools, Box Wrench, Date first available Nov. 29, 2011, [online]retrieved Jun. 4, 2021 ,available from [https://www.amazon.com/Klein-Tools-KT223X4-INS-Linemans-Insulating/dp/B006FXPYK2/ref=psdc\\_553410\\_t1\\_B07VWKRPRM](https://www.amazon.com/Klein-Tools-KT223X4-INS-Linemans-Insulating/dp/B006FXPYK2/ref=psdc_553410_t1_B07VWKRPRM) (Year: 2011).\*  
 Milwaukee,Ratcheting Box Wrench Milwaukee, Date first available Feb. 25, 2020, [online]retrieved Jun. 4, 2021,available from [https://www.amazon.com/MILWAUKEE-Lineman%C3%A2%E2%82%ACs-Ratcheting-Milwaukee-48-22-9211/dp/B07VXK6RGT/ref=pd\\_di\\_sccai\\_3/134-3843409-3591640?pd\\_rd\\_w=v2KQJ&pf\\_rd\\_p=c9443270-b914-\(Year: 2020\).](https://www.amazon.com/MILWAUKEE-Lineman%C3%A2%E2%82%ACs-Ratcheting-Milwaukee-48-22-9211/dp/B07VXK6RGT/ref=pd_di_sccai_3/134-3843409-3591640?pd_rd_w=v2KQJ&pf_rd_p=c9443270-b914-(Year: 2020).)\*  
 Joy Colorful, Multifunction Universal Wrench,Date first available Apr. 23, 2018, [online]retrieved Aug. 17, 2021 ,available from [https://www.amazon.com/JOY-COLORFUL-Multifunction-Universal-Revolving/dp/B07CKW648L/ref=sr\\_1\\_199\\_sspa?\\_encoding=UTF8&c=ts&dchild=1&keywords=Box+Wrenches&qid=1629491993&s=power-ha](https://www.amazon.com/JOY-COLORFUL-Multifunction-Universal-Revolving/dp/B07CKW648L/ref=sr_1_199_sspa?_encoding=UTF8&c=ts&dchild=1&keywords=Box+Wrenches&qid=1629491993&s=power-ha) (Year: 2018).\*

\* cited by examiner

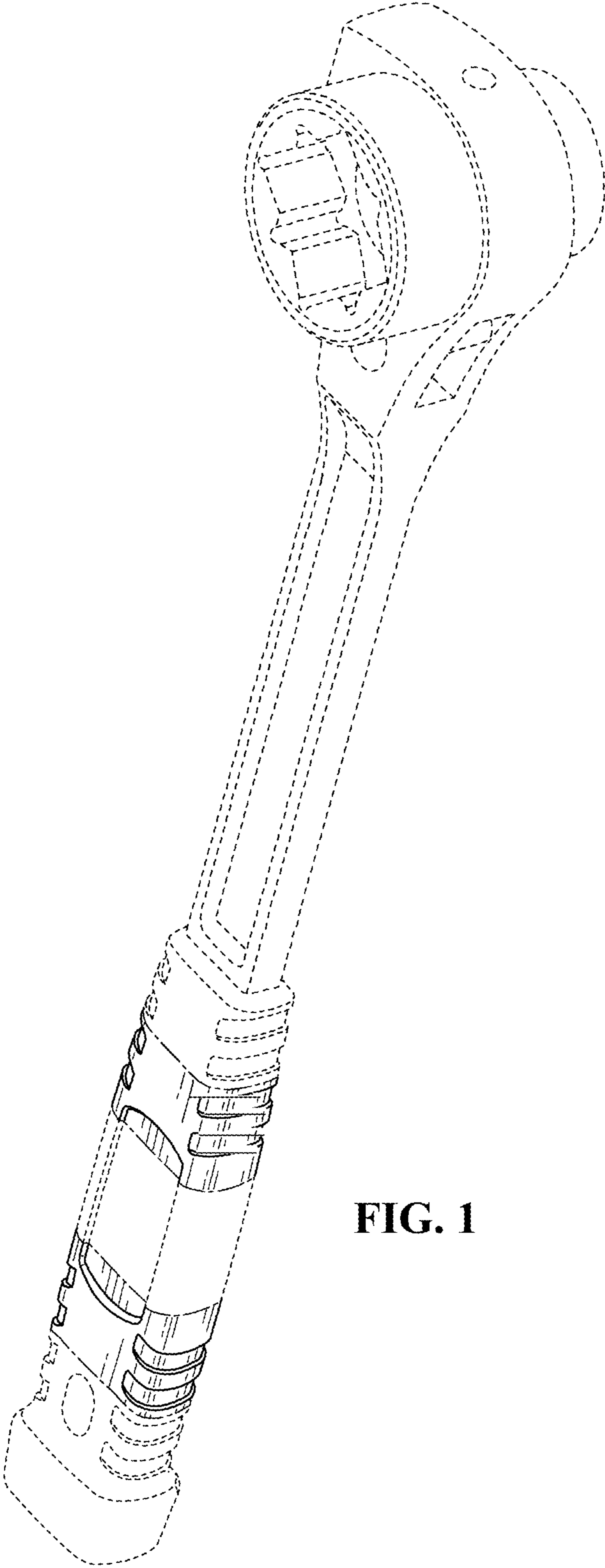
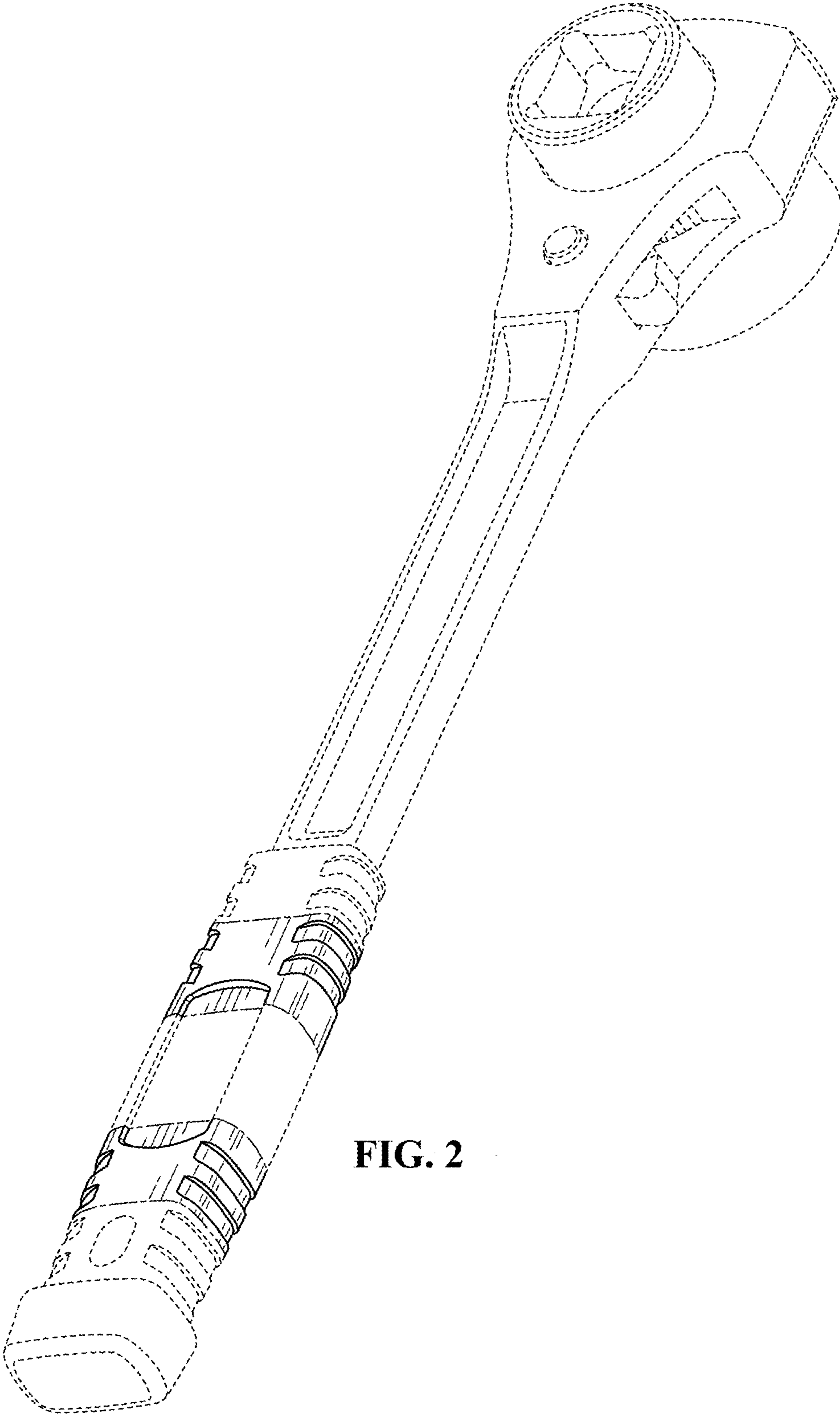


FIG. 1



**FIG. 2**

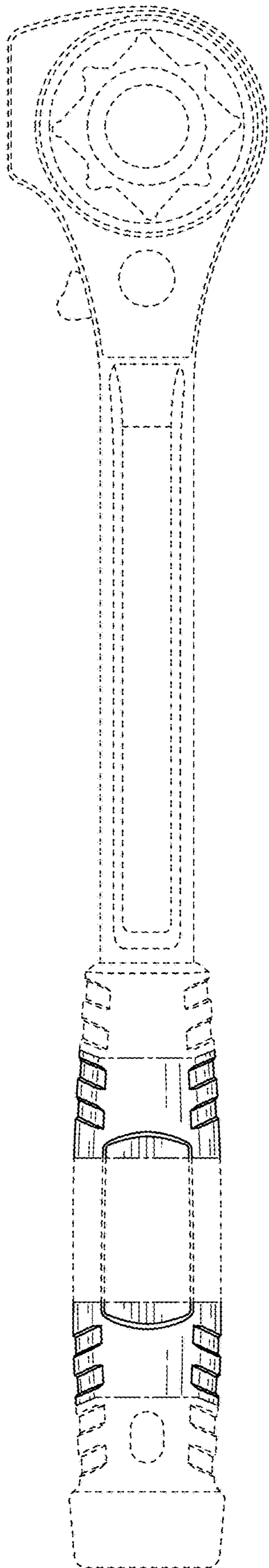


FIG. 3

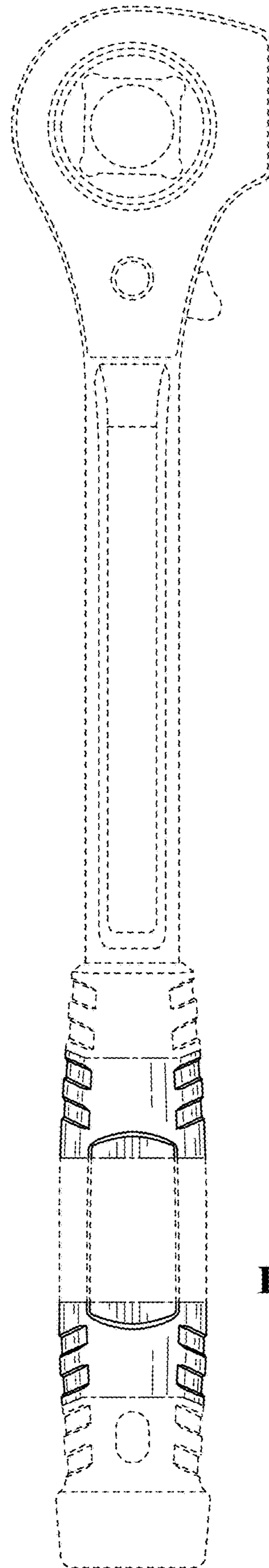


FIG. 4

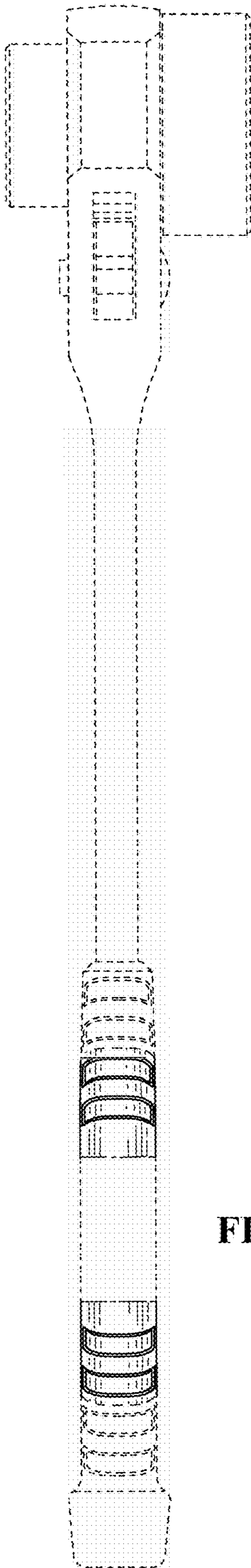


FIG. 5

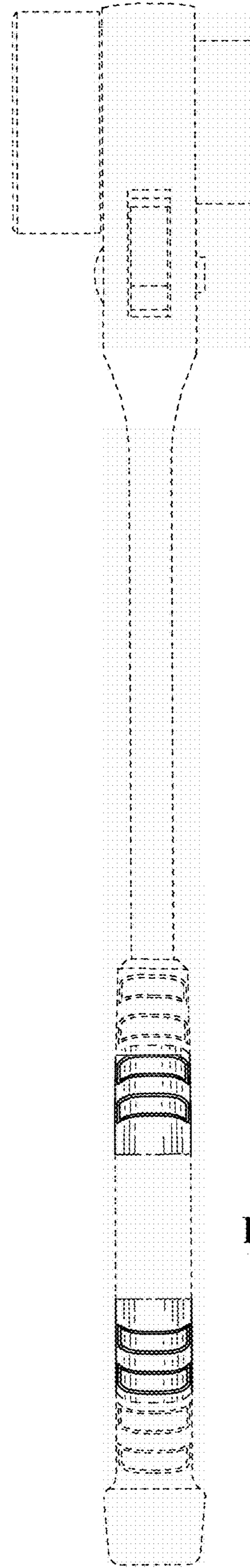
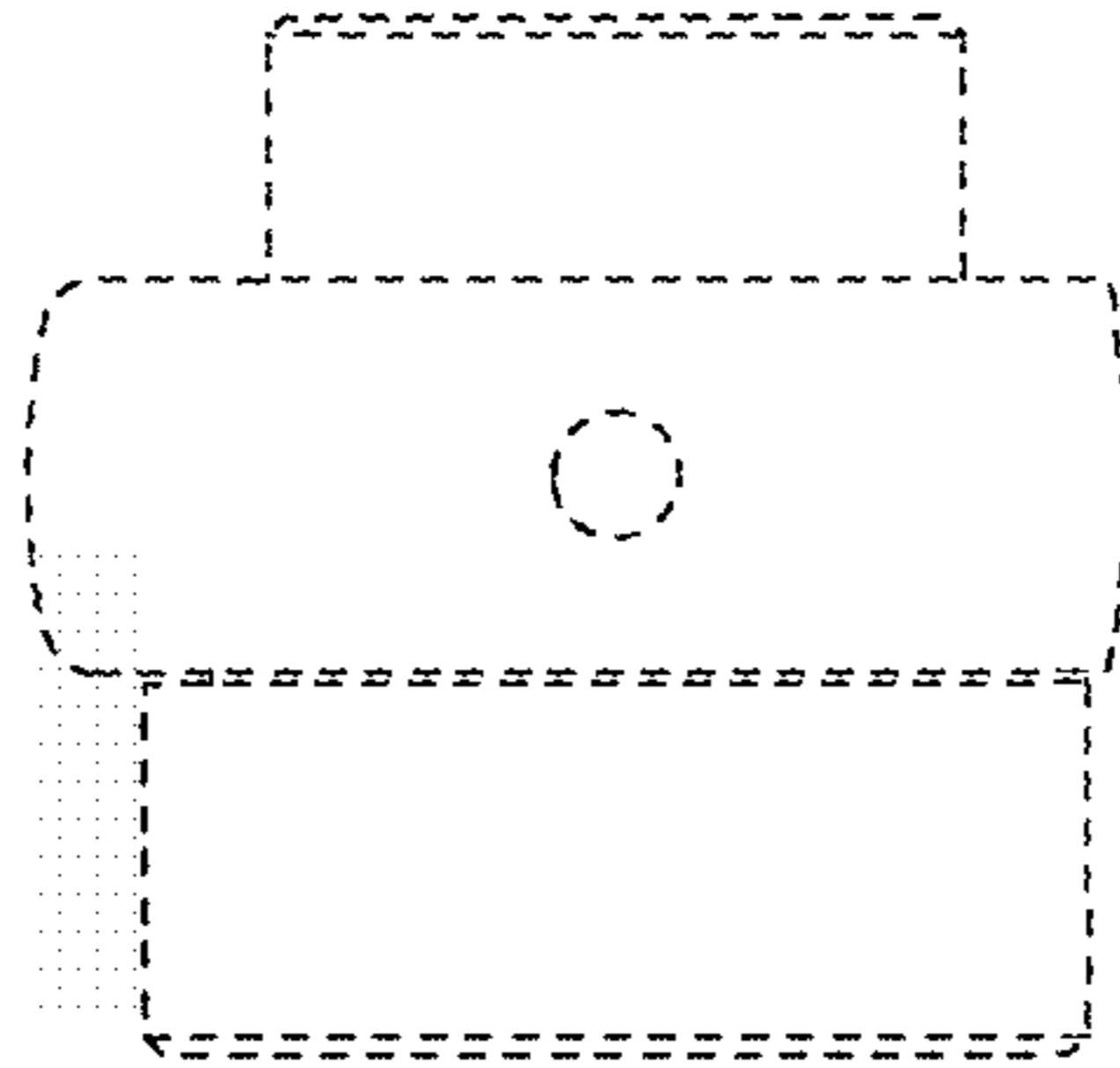
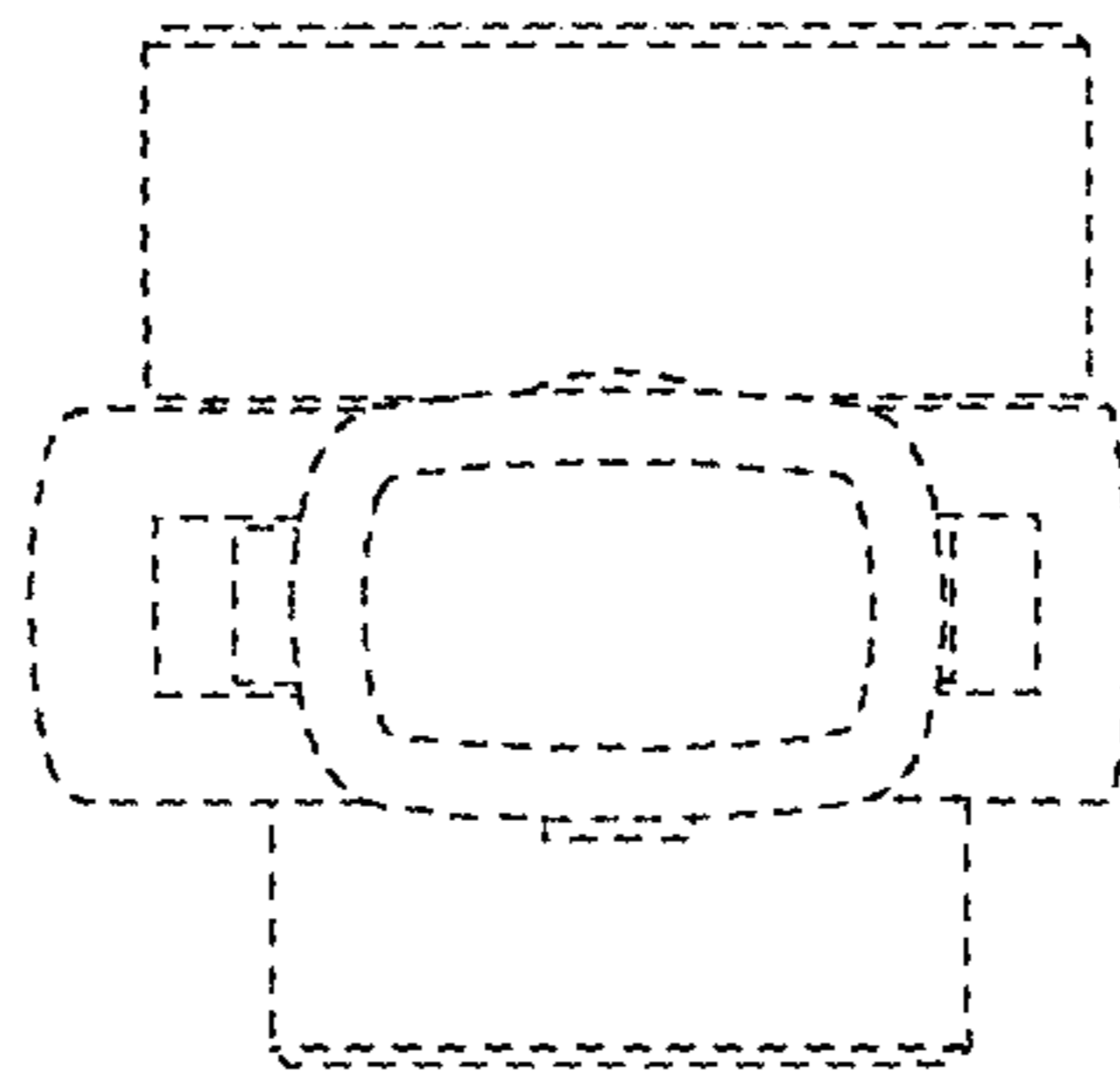


FIG. 6



**FIG. 7**



**FIG. 8**