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(12) **United States Design Patent** (10) **Patent No.:** **US D909,839 S**  
**Su** (45) **Date of Patent:** **\*\* Feb. 9, 2021**

(54) **SPANNER**

FOREIGN PATENT DOCUMENTS

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Taichung (TW)

CN 302887062 \* 4/2014  
CN 303884346 \* 6/2016

(Continued)

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Taichung (TW)

OTHER PUBLICATIONS

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

Crescent Store, 7 Pc. X6 Black Oxide Spline Open End Ratcheting  
Combination Metric Wrench Set—CX6RWM7, Date first available  
Oct. 3, 2012 [online]retrieved Oct. 6, 2020, available from internet,  
www.amazon.com (Year: 2012).\*

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(Continued)

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

(52) **U.S. Cl.**  
USPC ..... **D8/27; D8/28; D8/21**

(58) **Field of Classification Search**  
USPC ..... D8/14, 16–19, 21–29, 51, 52, 54–59;  
81/125.1, 177.1, 119, 124.7, 124.3, 186,  
81/431, 176.15, 461.1, 99, 98  
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  
See application file for complete search history.

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& Williams PC

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,620,107 A \* 11/1971 Evans ..... B25B 13/46  
81/125.1  
6,158,309 A \* 12/2000 Baker ..... B25B 13/08  
81/119  
D440,840 S \* 4/2001 Lee ..... D8/28  
D462,245 S \* 9/2002 Friedman ..... D8/21  
D552,437 S \* 10/2007 Hsieh ..... D8/27  
D749,385 S \* 2/2016 Solar ..... D8/28  
D786,640 S \* 5/2017 Hilman ..... D8/27  
D842,059 S \* 3/2019 Hsu ..... D8/28  
2001/0027705 A1 \* 10/2001 Hsieh ..... B25B 27/18  
81/119  
2003/0041700 A1 \* 3/2003 Chen ..... B25B 13/04  
81/125.1  
2008/0148906 A1 \* 6/2008 Wu ..... B25B 13/08  
81/121.1

(Continued)

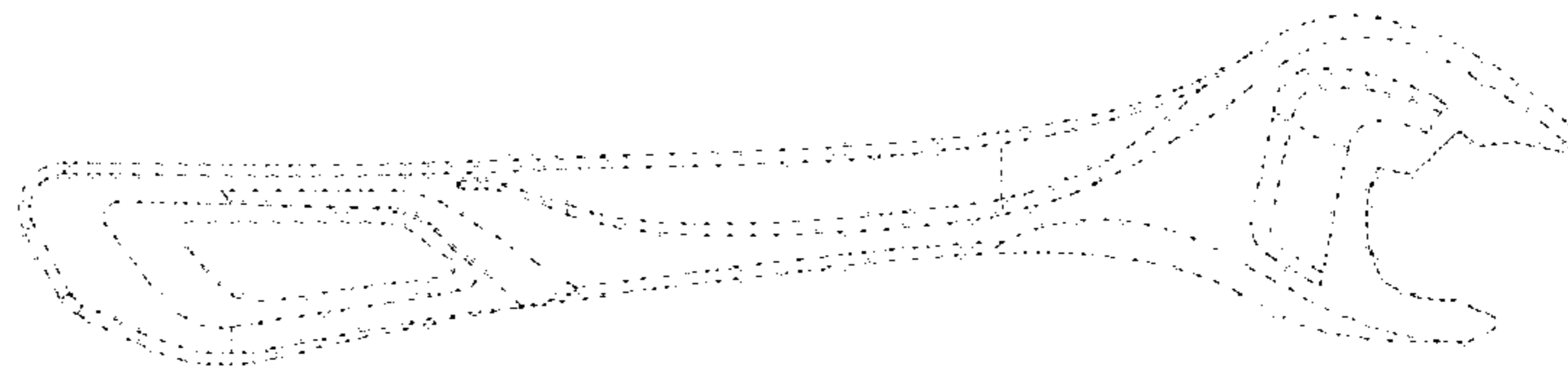
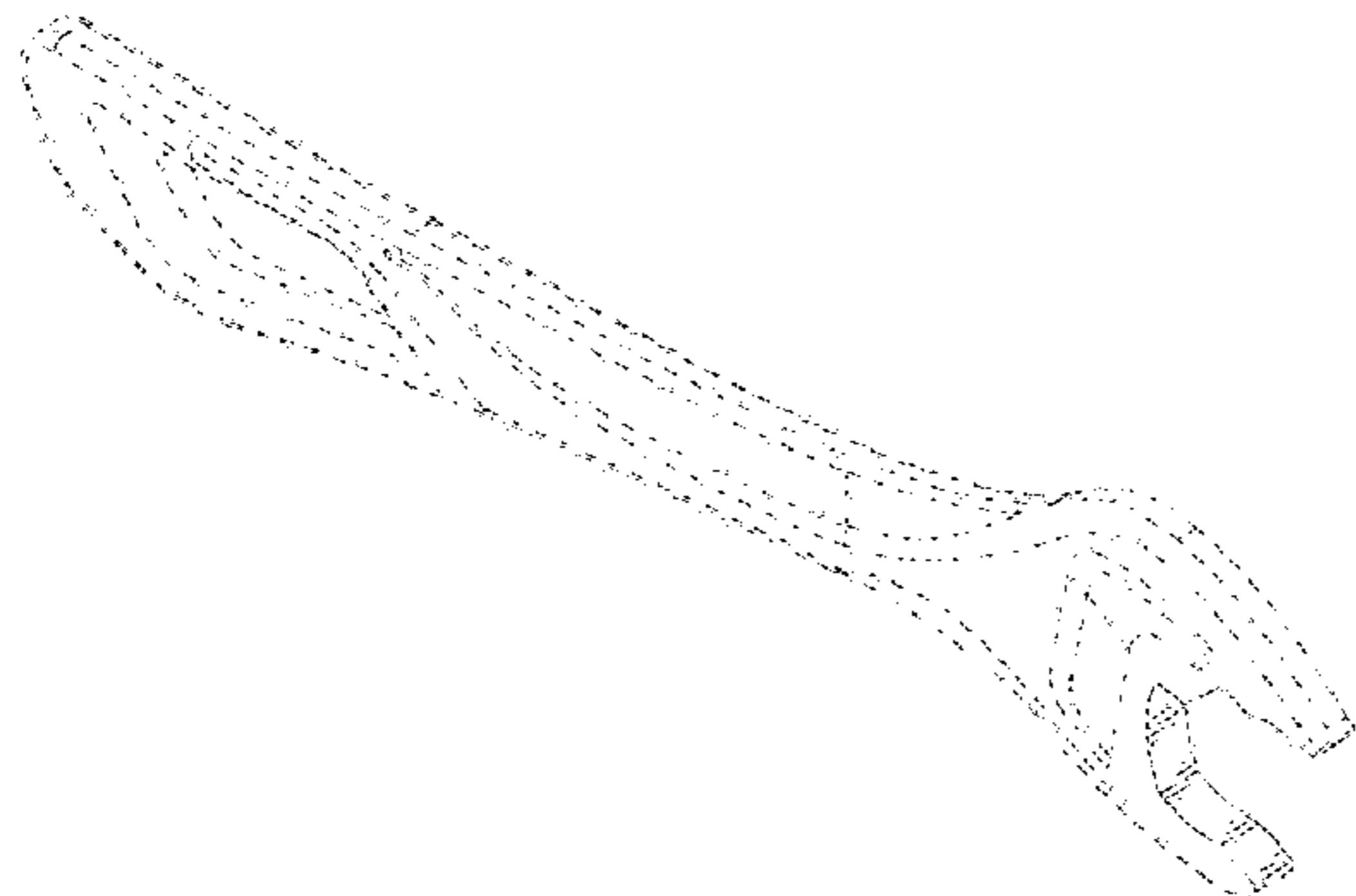
(57) **CLAIM**

The ornamental design for a spanner, as shown and  
described.

**DESCRIPTION**

FIG. 1 is a perspective view of a spanner showing my new  
design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a rear view thereof;  
FIG. 4 is a left view thereof;  
FIG. 5 is a right view thereof;  
FIG. 6 is a top view thereof; and,  
FIG. 7 is a bottom view thereof.  
The broken lines shown are included for the purpose of  
illustrating portions of the spanner that form no part of the  
claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2015/0114185 A1\* 4/2015 Mills ..... B25B 13/18  
81/111  
2018/0117741 A1\* 5/2018 Hsu ..... B25B 13/46

FOREIGN PATENT DOCUMENTS

CN 304990619 \* 4/2018  
CN 305659351 \* 5/2019  
JP D1630966 \* 9/2018  
JP D1655923 \* 8/2019

OTHER PUBLICATIONS

Gearwrench store, Open End Ratcheting Combination Wrench  
13mm 12 Point-85513, Date first available Aug. 27, 2012,  
[online]retrieved Oct. 6, 2020, available from internet, www.amazon.  
com (Year: 2012).\*

Wera Store, Joker Switch Maul-Ringratschenschlüssel-Satz, Date  
first available Nov. 1, 2016 [online]retrieved Oct. 6, 2020, available  
from internet, www.amazon.com (Year: 2016).\*

Hurricane Store 6 Pieces SAE Flare Nut Wrench Set 1/4" to 1", offset  
end wrench, 6 Point, Date first available Nov. 27, 2018,[online]retrieved  
Oct. 6, 2020, available from internet, www.amazon.com (Year:  
2018).\*

\* cited by examiner

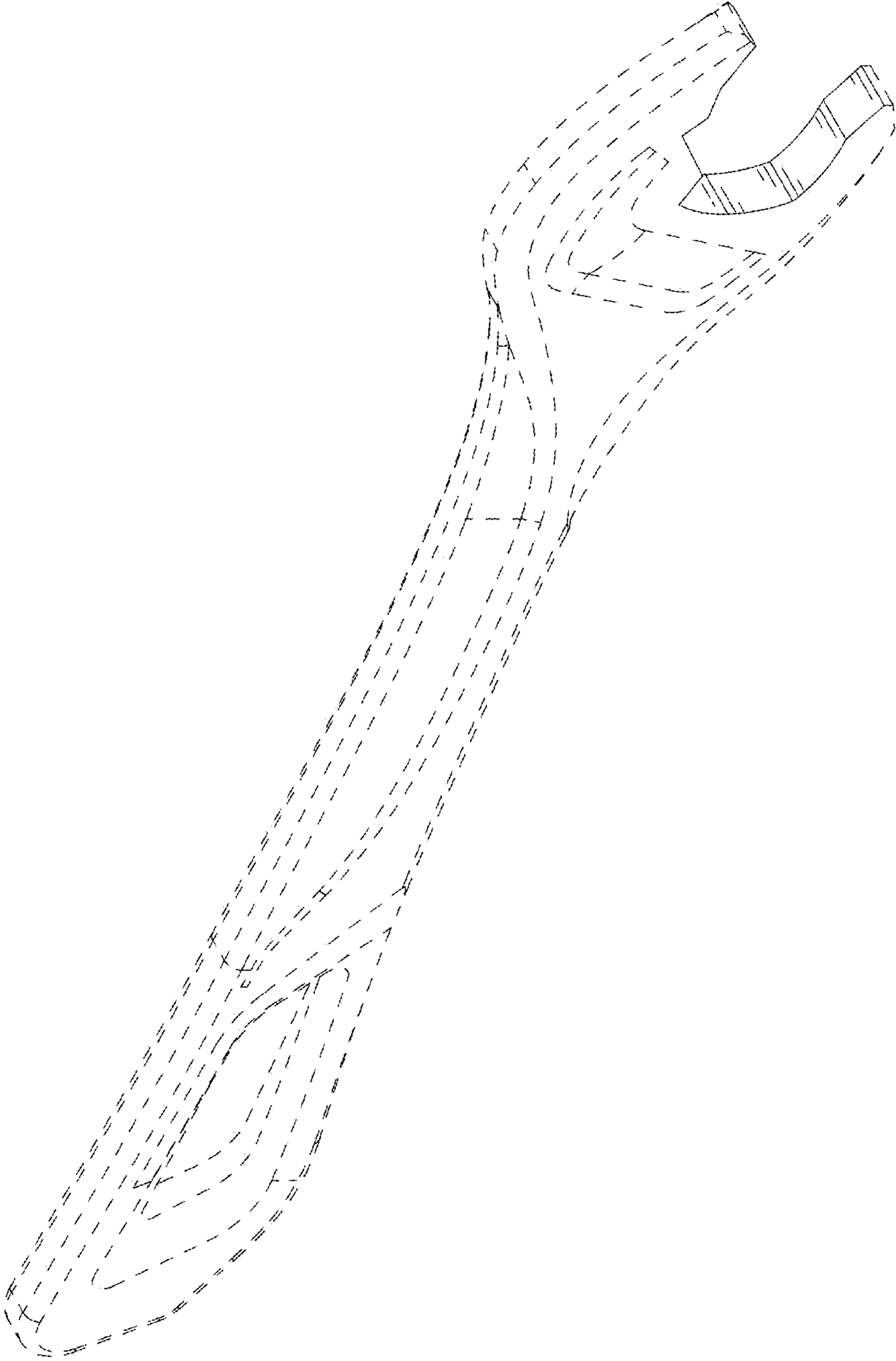


FIG. 1

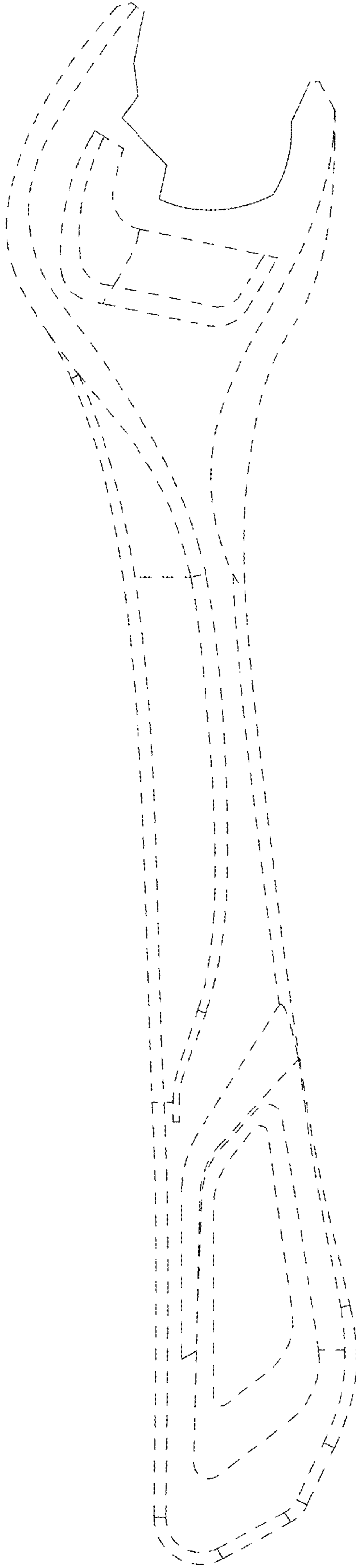


FIG. 2

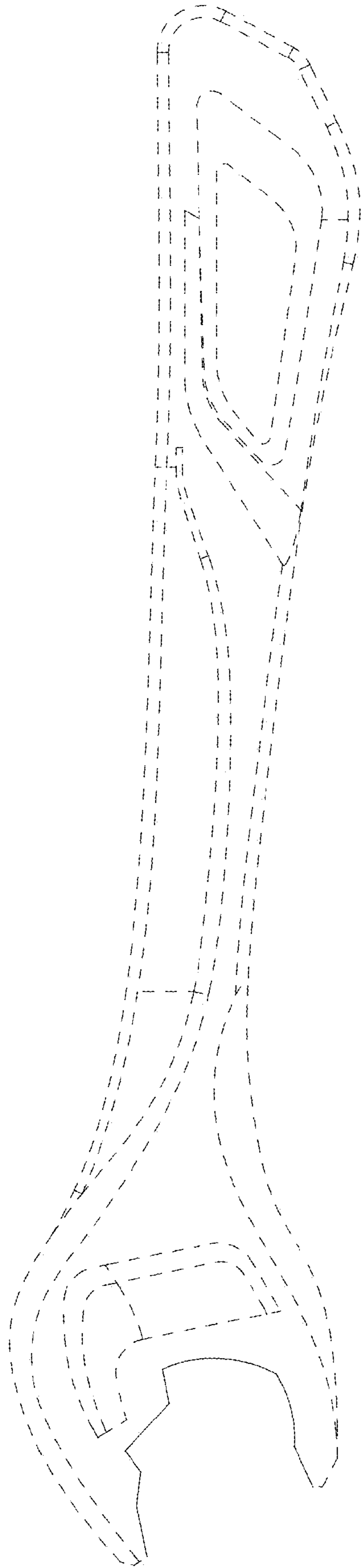


FIG. 3

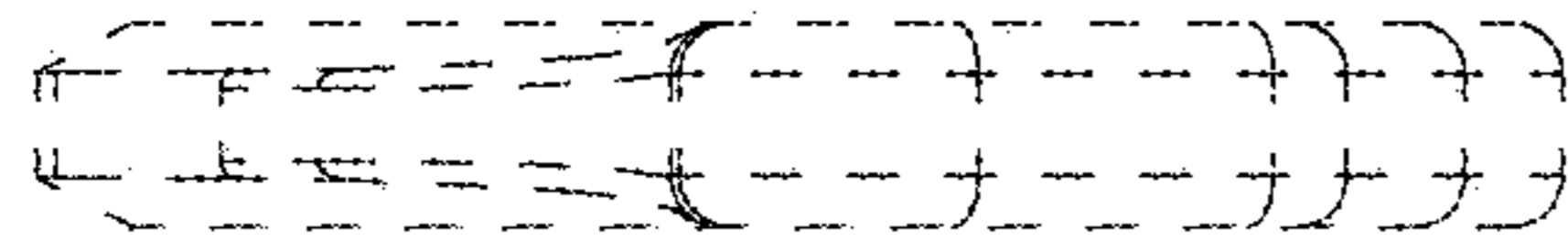


FIG. 4



FIG. 5



FIG. 6





FIG. 7