



US00D910391S

(12) **United States Design Patent** (10) **Patent No.:** **US D910,391 S**
Su (45) **Date of Patent:** **** Feb. 16, 2021**

(54) **SPANNER**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Hong Ann Tool Industries Co., Ltd.,**
Taichung (TW)

CN 3588038 * 11/2005
CN 301684687 * 5/2011
CN 303884346 * 6/2016

(72) Inventor: **Cheng-Wei Su,** Taichung (TW)

(Continued)

(73) Assignee: **Hong Ann Tool Industries Co., Ltd.,**
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**

Primary Examiner — Keli L Hill

(52) **U.S. Cl.**

Assistant Examiner — Sara S Sahneh

USPC **D8/27; D8/28; D8/21**

(58) **Field of Classification Search**

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& Williams PC

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.

(57) **CLAIM**

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

(56) **References Cited**

U.S. PATENT DOCUMENTS

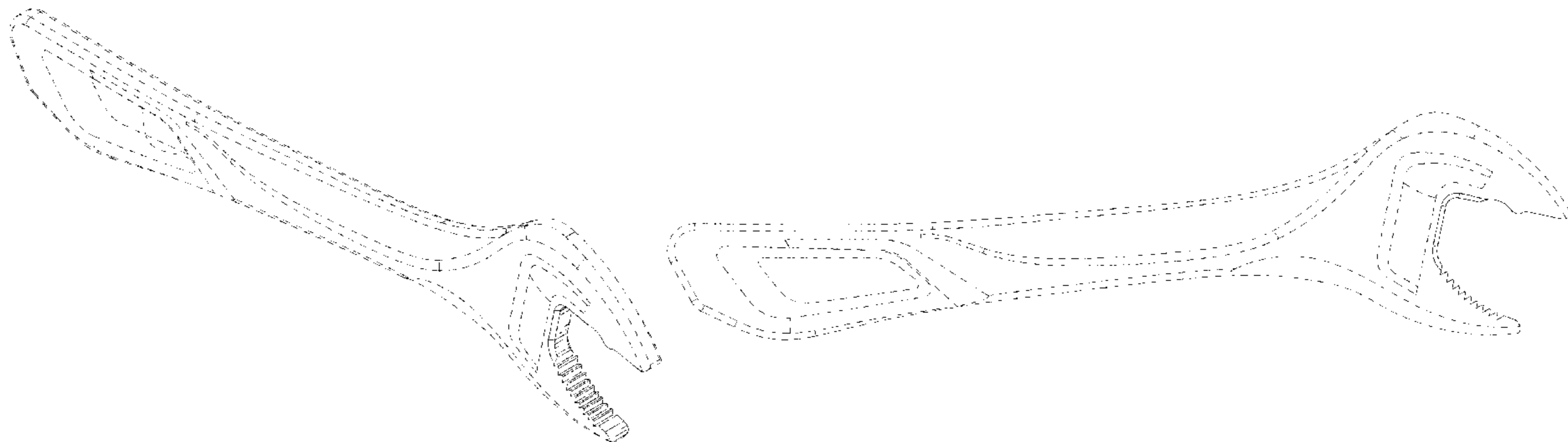
DESCRIPTION

D388,296 S * 12/1997 Wei D8/28
D409,061 S * 5/1999 Hsieh D8/28
D431,432 S * 10/2000 Hsieh D8/28
D554,454 S * 11/2007 Hsieh D8/28
7,439,871 B2 * 10/2008 Hsieh B25B 13/04
340/665
D624,796 S * 10/2010 Taylor, Jr. D8/28
D661,560 S * 6/2012 Chang D8/28
D713,225 S * 9/2014 Chang D8/28
D743,763 S * 11/2015 Hsieh D8/28
D749,387 S * 2/2016 Chang D8/28
2002/0178873 A1 * 12/2002 Hsieh B25G 1/00
81/125.1
2006/0272456 A1 * 12/2006 Hsien B25B 13/08
81/119

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 for purpose of illustrating
portions of the spanner that form no part of the claimed
design.

(Continued)

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2007/0295170 A1* 12/2007 Hsieh B25B 13/08
81/119

FOREIGN PATENT DOCUMENTS

CN	306050961	*	2/2020
WO	D022807-001	*	5/1992
WO	D091189-001	*	5/2016
WO	D207093-001	*	10/2019

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,[nline]retrieved Oct. 6, 2020, available from internet, www.amazon.com (Year: 2018).*

* cited by examiner

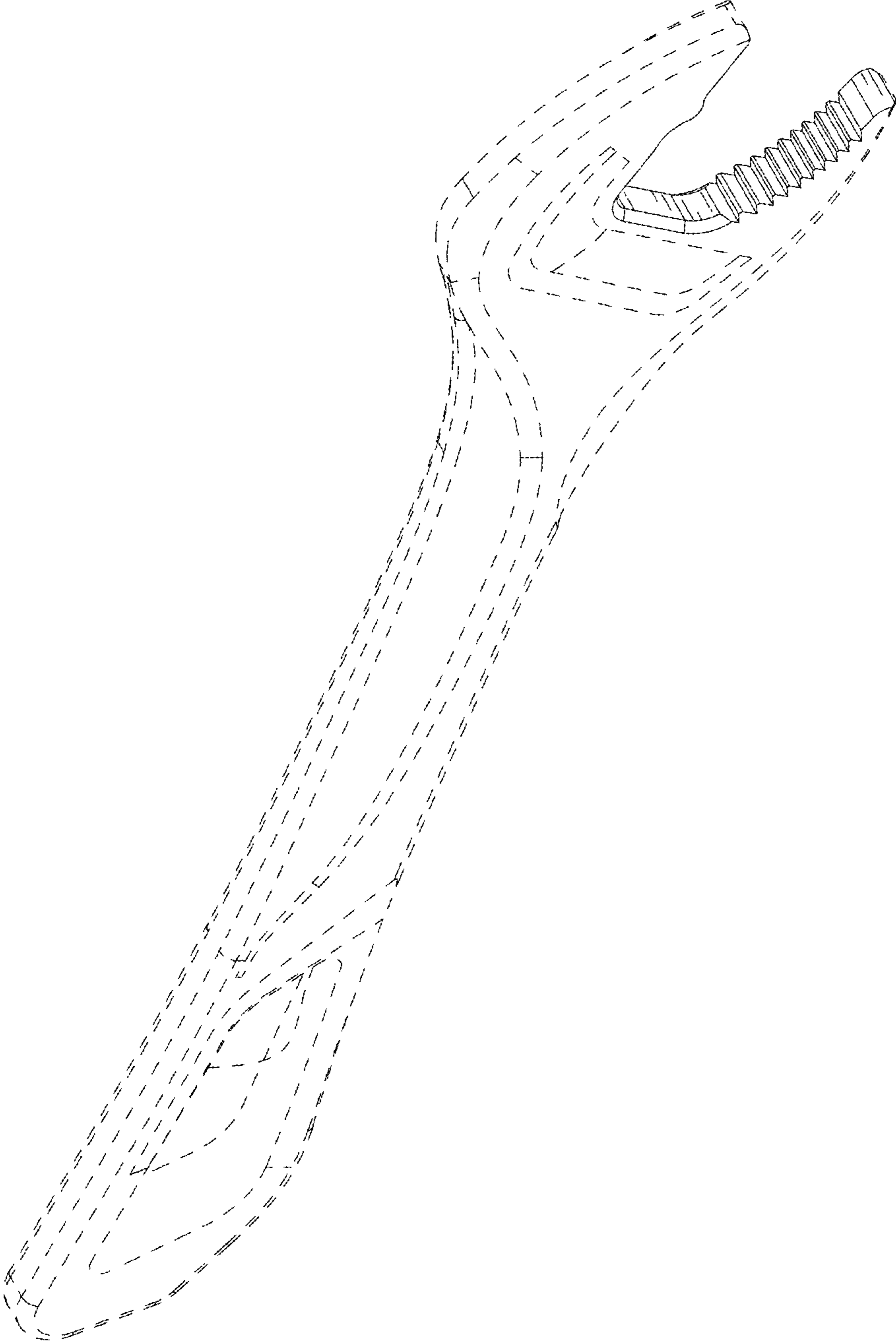


FIG. 1

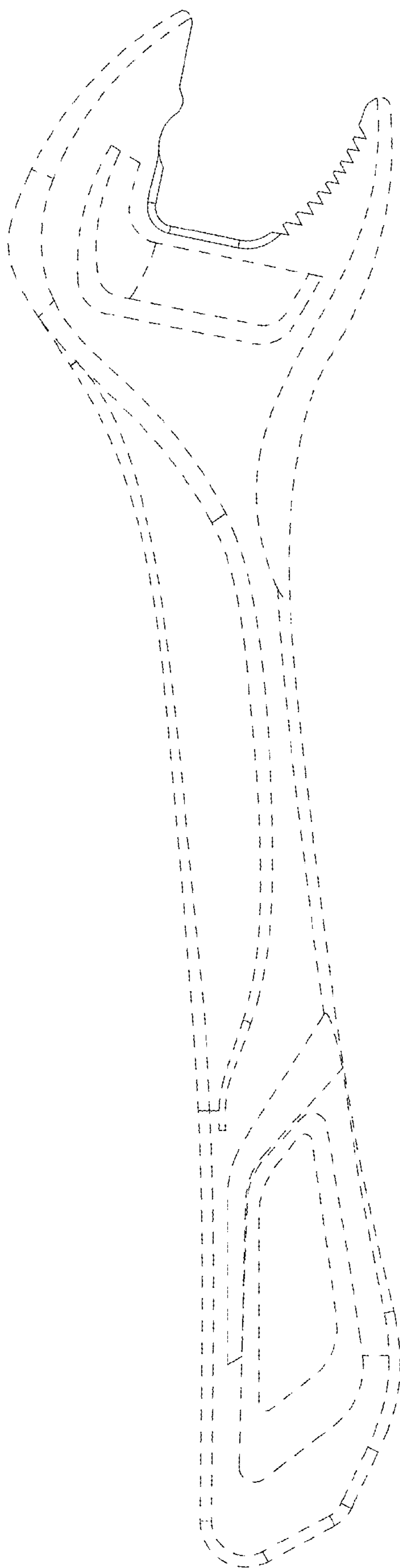


FIG. 2

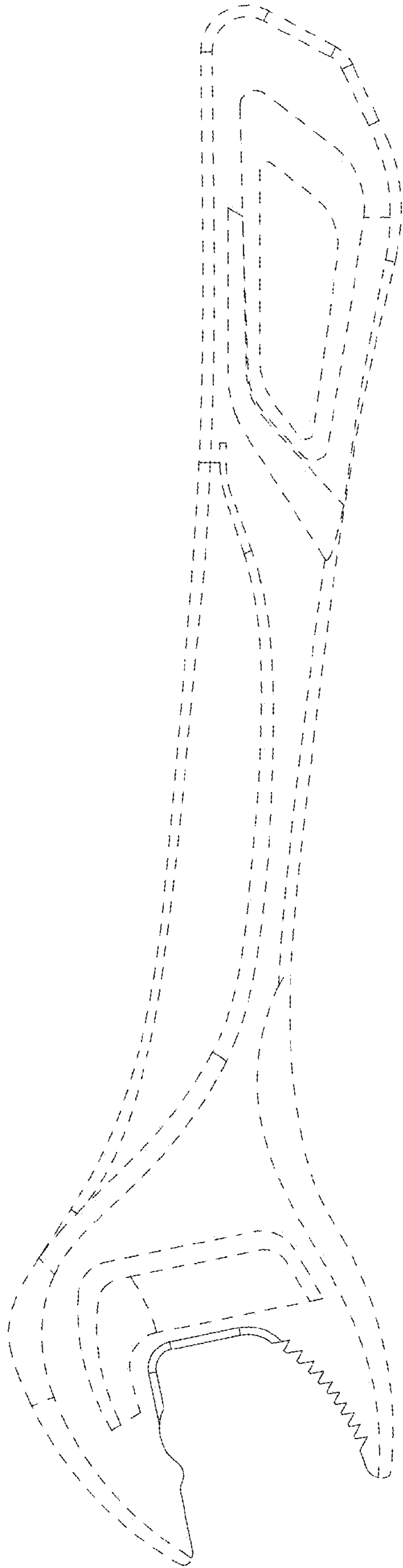


FIG. 3

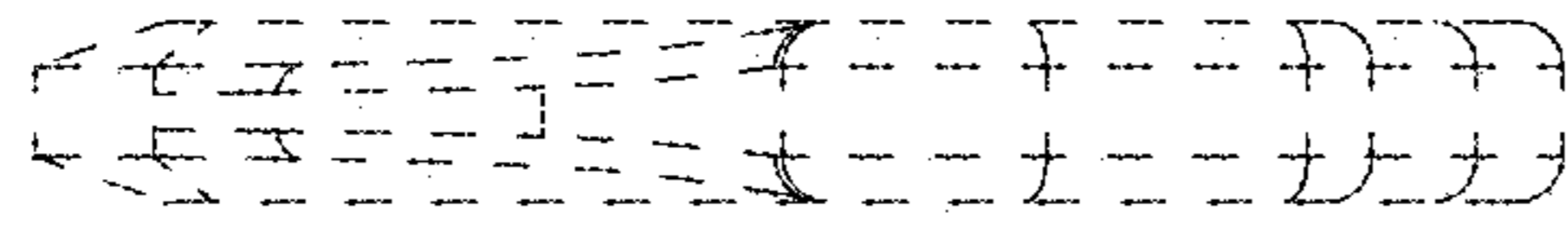


FIG. 4

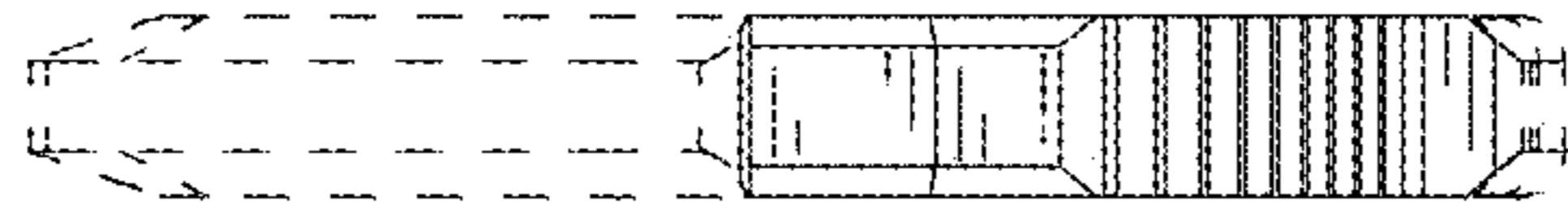


FIG. 5

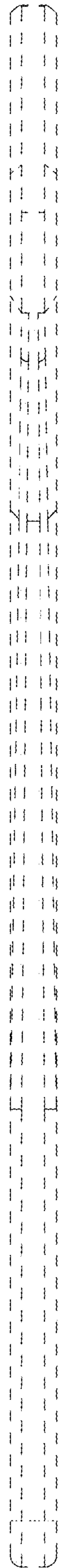


FIG. 6

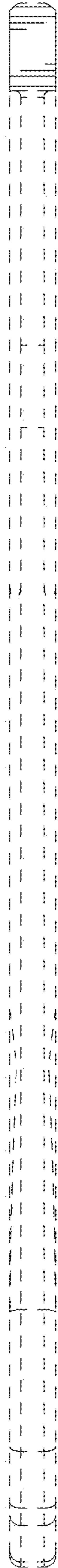


FIG. 7