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(12) **United States Design Patent** (10) **Patent No.:** **US D909,838 S**
Su (45) **Date of Patent:** **** Feb. 9, 2021**

(54) **SPANNER**

FOREIGN PATENT DOCUMENTS

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CN 303924849 * 5/2016
CN 303884346 * 10/2016

(Continued)

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OTHER PUBLICATIONS

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

Crescent Store, 7 Pc. X6 Black Oxide Spline Open End Ratcheting
Combination Metric Wrench Set—CX6RWM7, Date first available
Aug. 27, 2012, [online]retrieved Oct. 6, 2020, available from
internet, www.amazon.com (Year: 2012).*

(Continued)

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

(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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(56) **References Cited**

U.S. PATENT DOCUMENTS

5,131,312 A * 7/1992 Macor B25B 13/04
81/119
6,289,772 B1 * 9/2001 Ying-Wen B25B 13/08
81/119
D553,457 S * 10/2007 Hsieh D8/27
D686,473 S * 7/2013 Nam D8/28
8,869,660 B2 * 10/2014 Hsieh B25B 13/04
81/186
2003/0209111 A1 * 11/2003 Huang B25B 13/08
81/119
2004/0003686 A1 * 1/2004 Cagny B25B 13/46
81/186
2004/0163504 A1 * 8/2004 Chen B25B 13/08
81/186
2011/0277600 A1 * 11/2011 Liu B25B 13/08
81/179

(Continued)

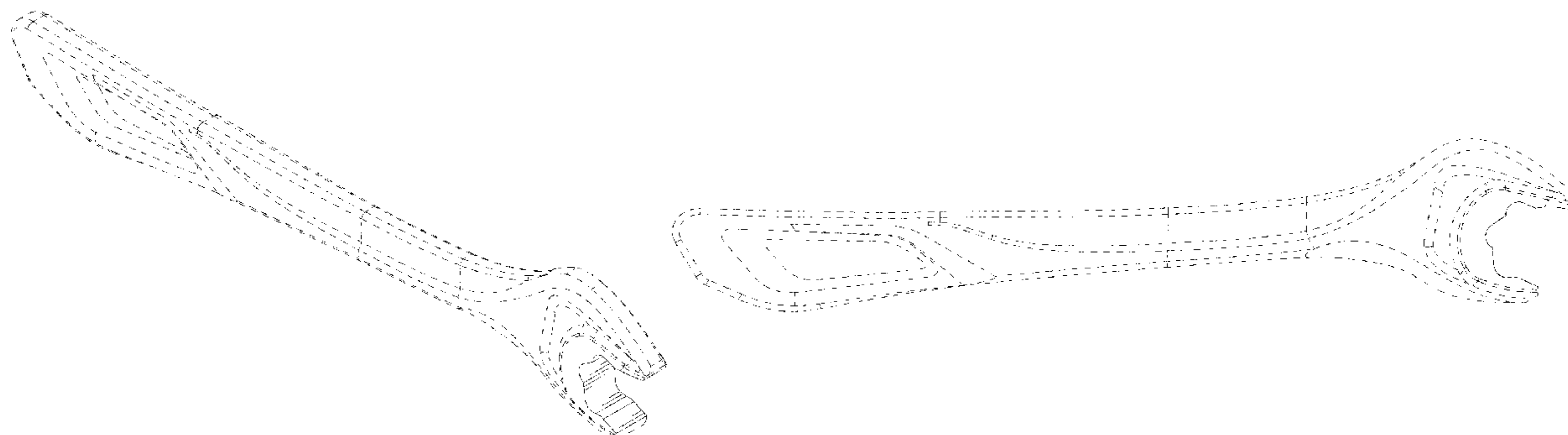
(57) **CLAIM**

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 and forms no part of the
claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2012/0272796 A1* 11/2012 Hu B25B 13/46
81/179
2013/0239758 A1* 9/2013 Yang B25B 13/46
81/179
2014/0318326 A1* 10/2014 Lin B25B 13/08
81/179
2015/0027278 A1* 1/2015 Lee B25B 13/08
81/119

FOREIGN PATENT DOCUMENTS

CN 306050961 * 2/2020
CN 306038055 * 5/2020
JP D1489148 * 3/2012
WO D022807-001 * 5/1992

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

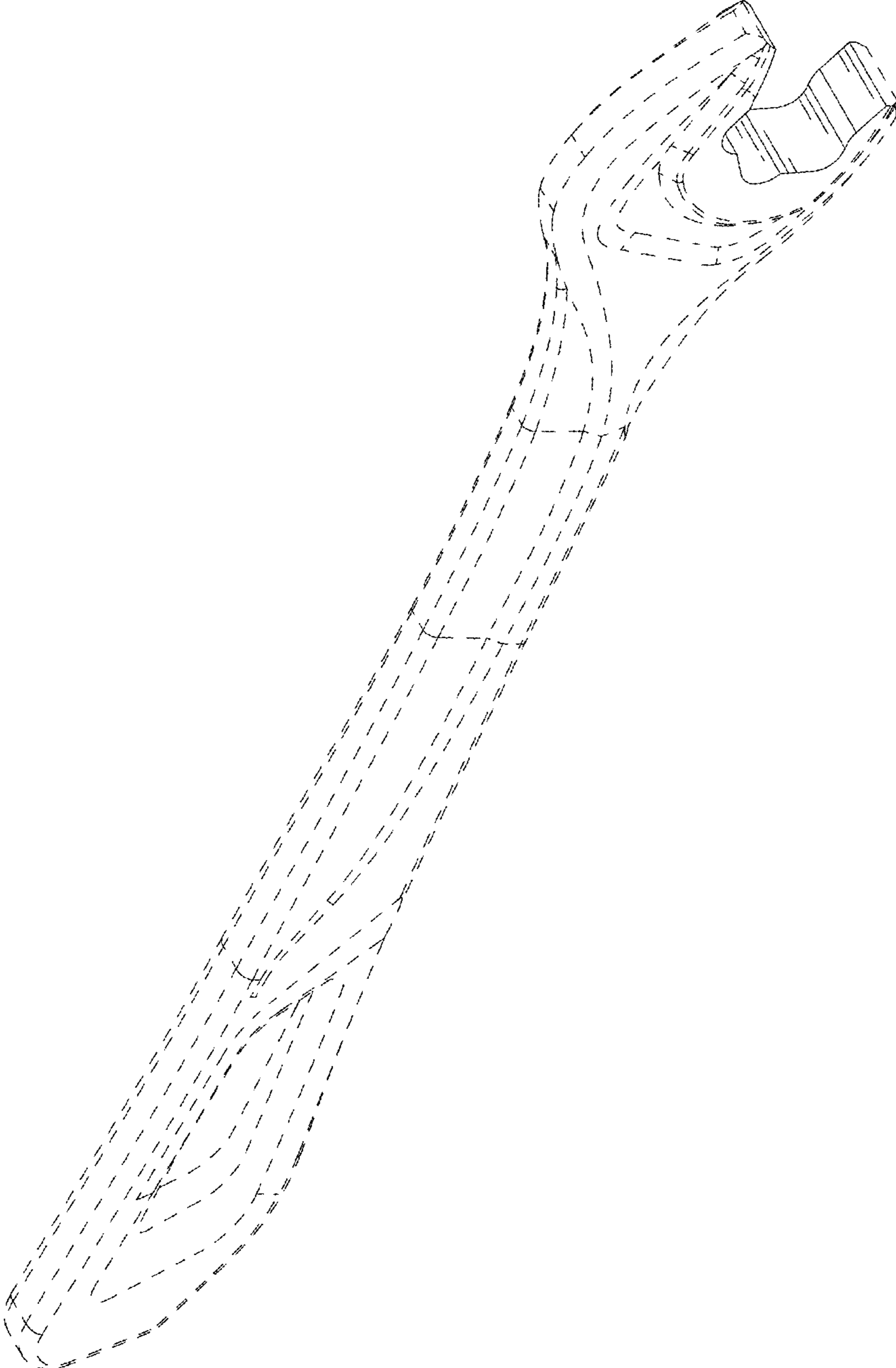


FIG. 1

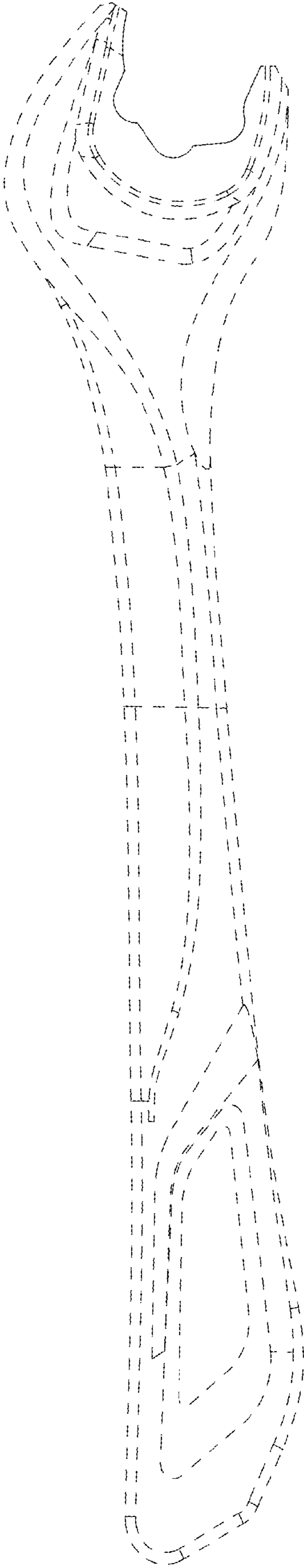


FIG. 2

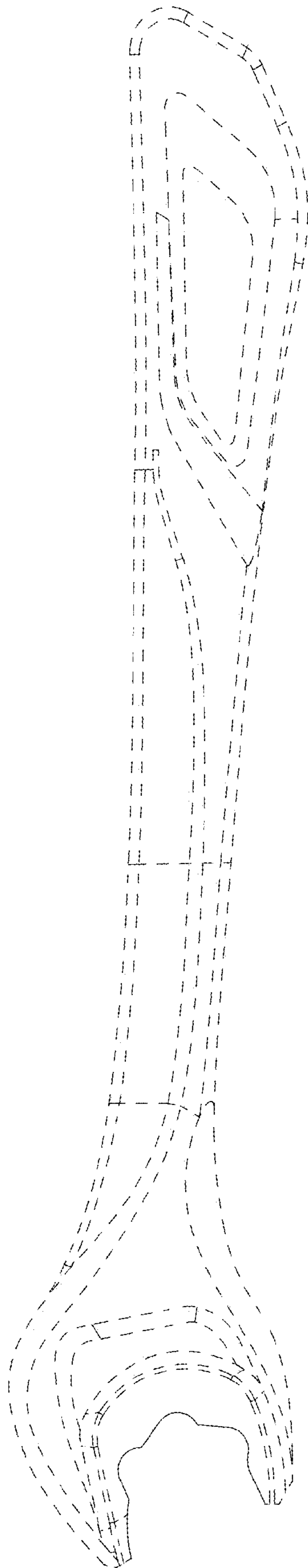


FIG. 3



FIG. 4

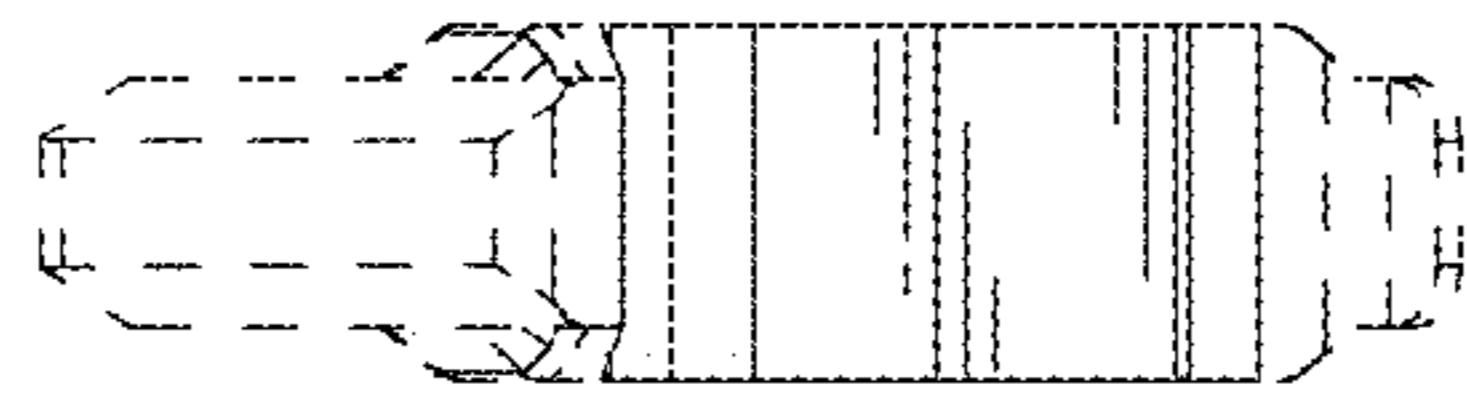


FIG. 5



FIG. 6



FIG. 7