



US00D803021S

(12) **United States Design Patent** (10) **Patent No.:** **US D803,021 S**
Wu (45) **Date of Patent:** **** Nov. 21, 2017**

(54) **PLIERS**
(71) Applicant: **Ming Chieh Wu**, Taichung (TW)
(72) Inventor: **Ming Chieh Wu**, Taichung (TW)
(**) Term: **15 Years**
(21) Appl. No.: **29/585,212**
(22) Filed: **Nov. 22, 2016**

Related U.S. Application Data

(63) Continuation-in-part of application No. 29/534,583, filed on Jul. 30, 2015.
(51) **LOC (10) Cl.** **08-05**
(52) **U.S. Cl.**
USPC **D8/52**
(58) **Field of Classification Search**
USPC D8/4, 5, 51-60
CPC .. B25B 7/123; B25B 7/12; B25B 7/10; B25B 7/02; B25B 7/14; B25B 7/16; B25B 7/04
See application file for complete search history.

4,546,680 A 10/1985 Petersen
4,669,341 A 6/1987 Small
4,797,965 A 1/1989 Mazzone
4,824,085 A 4/1989 Buchler
4,884,479 A 12/1989 Mazzone
5,233,893 A 8/1993 Schmidt
5,351,585 A 10/1994 Leseberg
5,435,214 A 7/1995 Sisson
5,984,272 A 11/1999 Crider
D426,440 S 6/2000 Torres
6,199,458 B1 3/2001 Wrigley
6,279,433 B1 8/2001 Chervenak
D470,373 S 2/2003 Ferreria
6,591,719 B1 * 7/2003 Poole B25B 7/123
81/370
6,626,070 B2 * 9/2003 Peperkorn B25B 7/123
81/369
7,086,312 B1 8/2006 Tortolani
D531,002 S 10/2006 L'Ecuyer
7,861,622 B2 1/2011 Chervenak
D635,427 S * 4/2011 Chervenak D8/52
D635,428 S * 4/2011 Lucas D8/52

(Continued)

Primary Examiner — Deanna L Pratt
(74) *Attorney, Agent, or Firm* — Alan D. Kamrath;
Kamrath IP Lawfirm, P.A.

(56) **References Cited**
U.S. PATENT DOCUMENTS

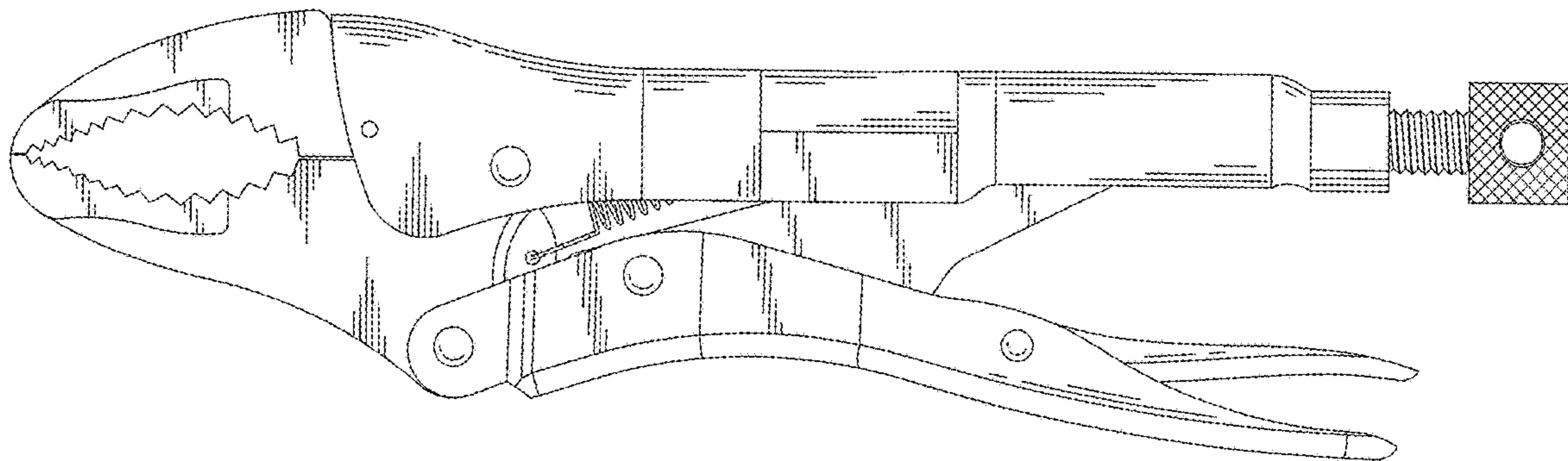
893,831 A 7/1908 Adams
1,286,314 A 12/1918 Hertle
1,713,239 A 5/1929 Parkhurst
2,419,270 A 4/1947 Linnartz
2,542,674 A 2/1951 Hill
2,581,978 A 1/1952 Spring
2,594,794 A 4/1952 Mull
2,711,663 A 6/1955 Petersen
2,853,910 A 9/1958 Petersen
3,030,830 A 4/1962 Reyner
3,220,721 A 11/1965 Wahli
3,222,055 A 12/1965 Cook
D261,096 S * 10/1981 Petersen D8/22
4,297,756 A 11/1981 Lance

(57) **CLAIM**
The ornamental design for pliers, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a pliers 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.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D653,092	S	1/2012	Carra	
8,919,229	B1 *	12/2014	Aldredge B25B 7/123 81/367
8,950,299	B2 *	2/2015	Wu B25B 7/123 81/318
9,027,447	B2 *	5/2015	Cripps B25B 7/123 81/319
9,216,494	B2	12/2015	Lai	
D782,891	S *	4/2017	Hyma D8/52
2006/0107814	A1	5/2006	Thompson	
2013/0047794	A1 *	2/2013	Huang B25B 7/123 81/319
2013/0239759	A1 *	9/2013	Huang B25B 7/123 81/370

* cited by examiner

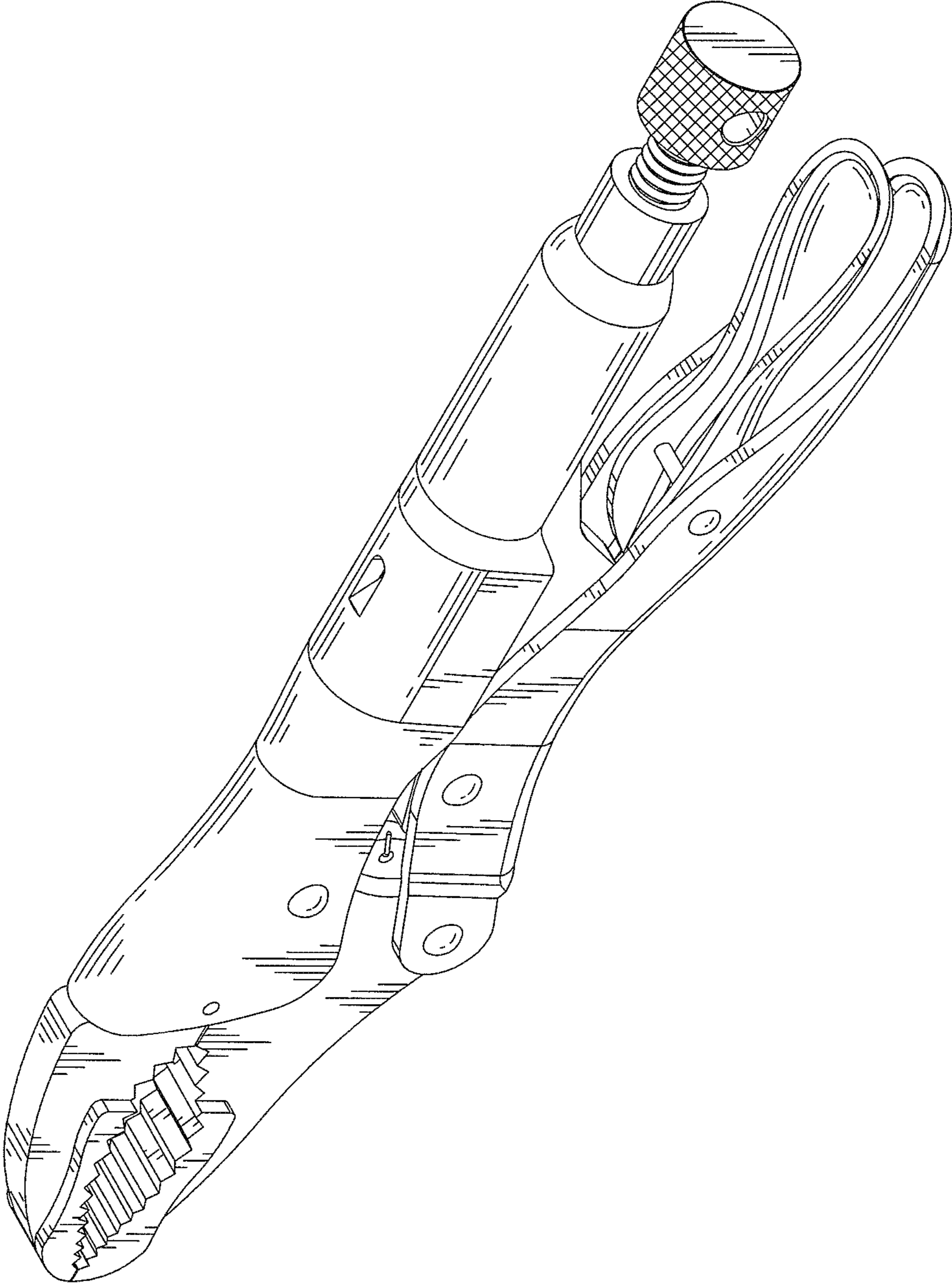


FIG. 1

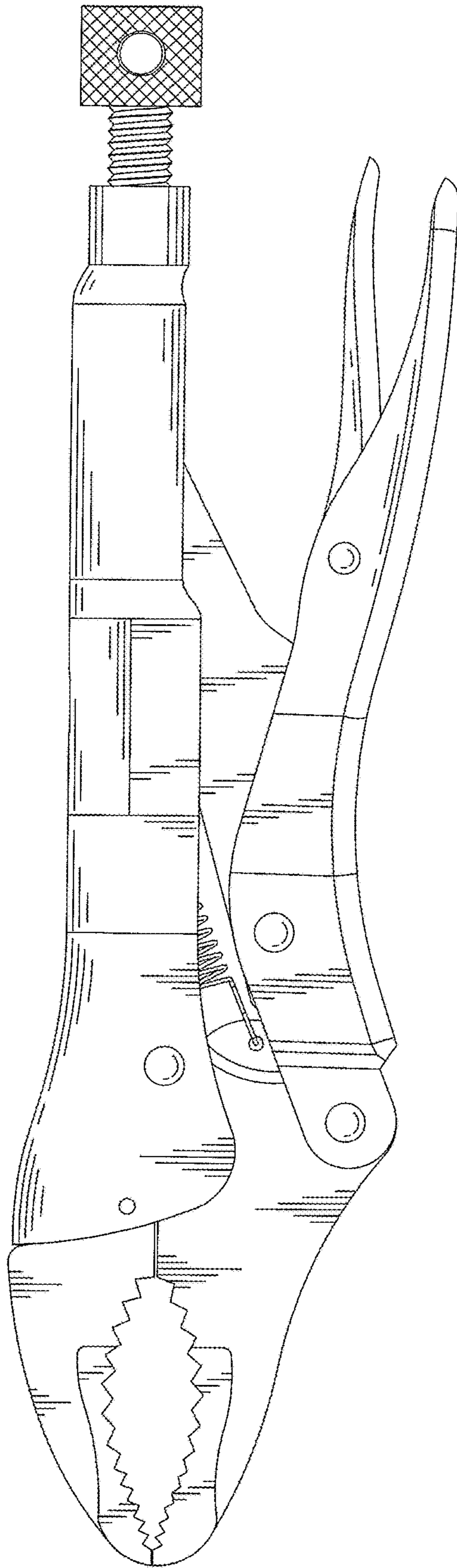


FIG. 2

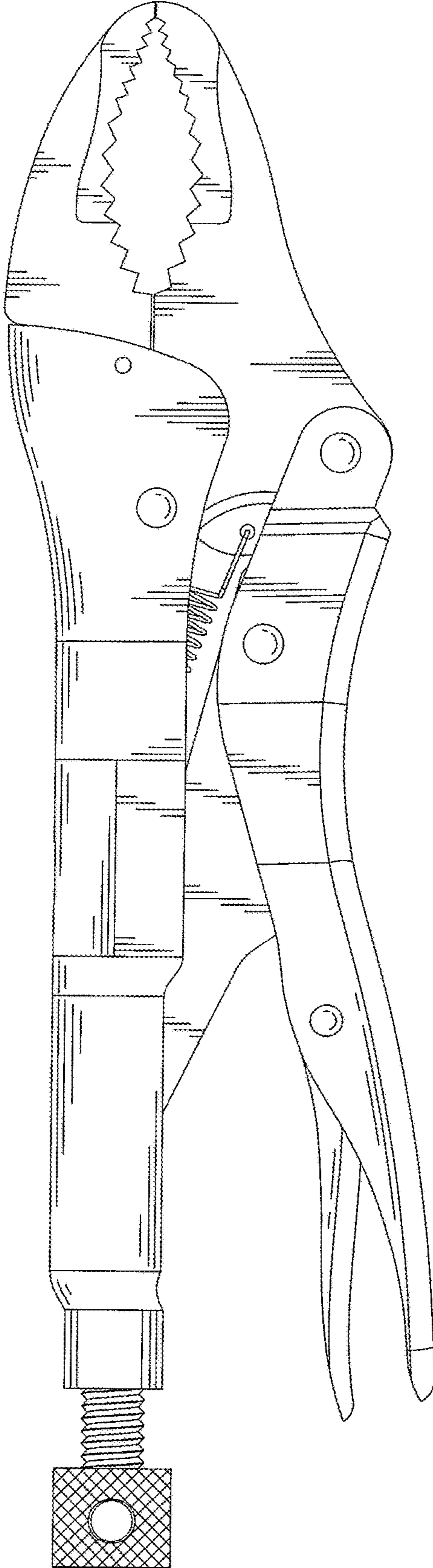


FIG. 3

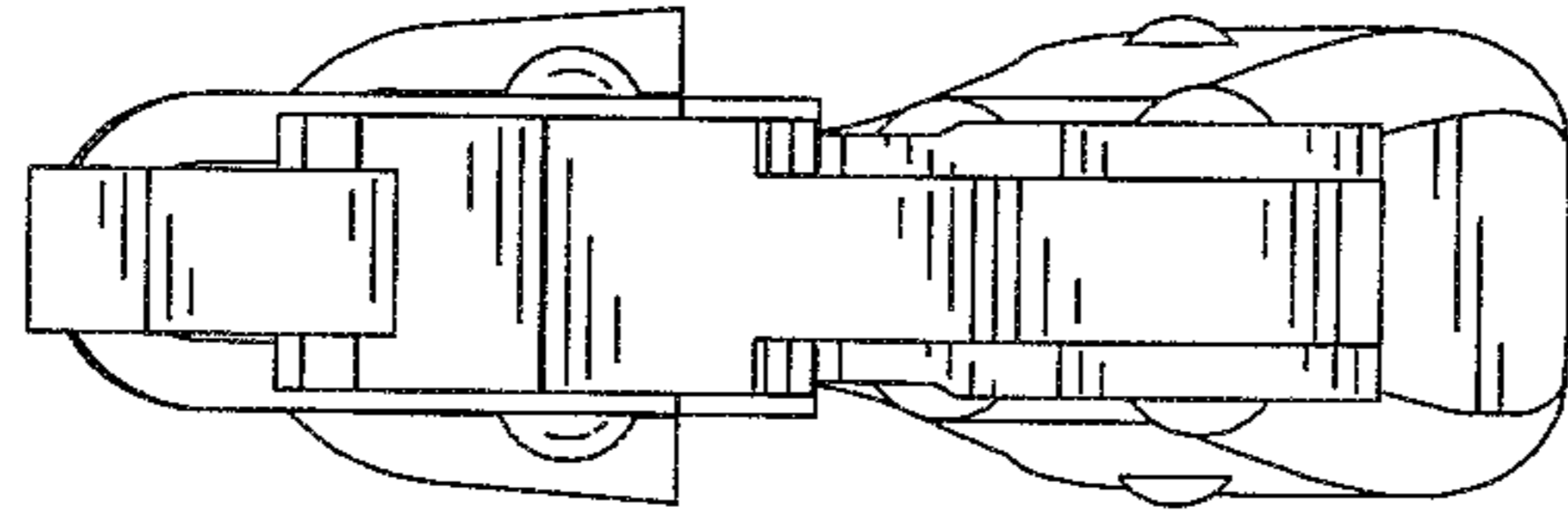


FIG. 4

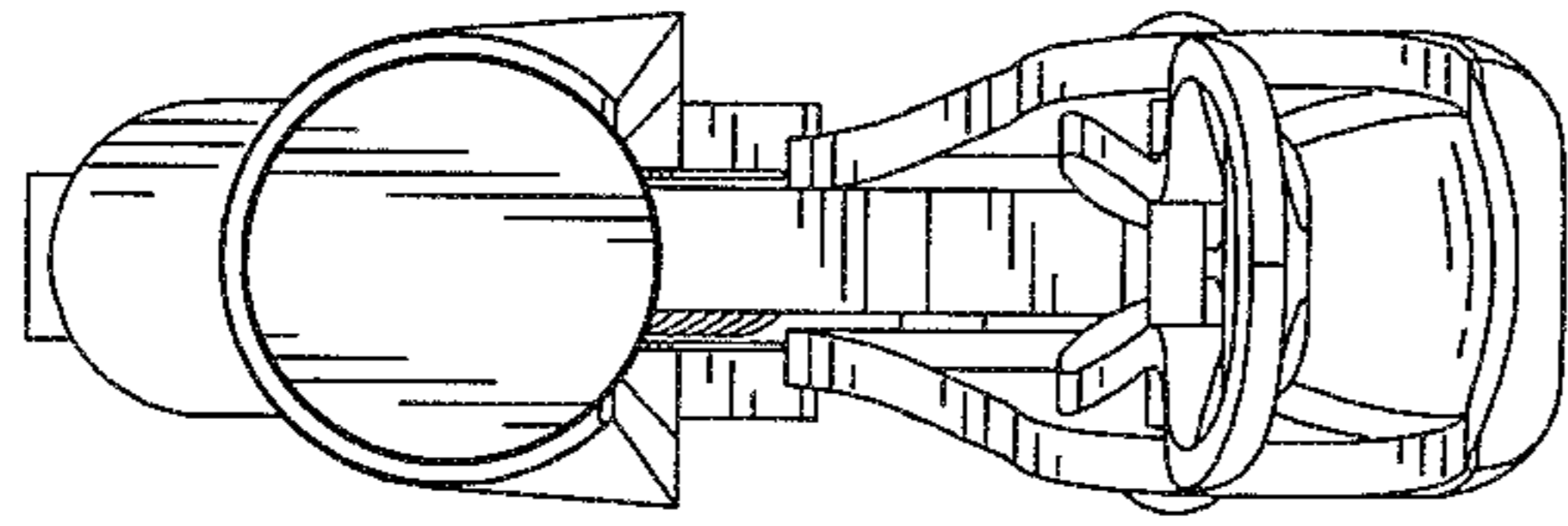


FIG. 5

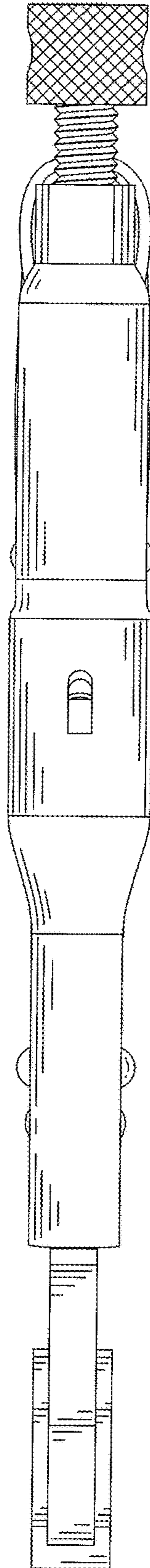


FIG. 6

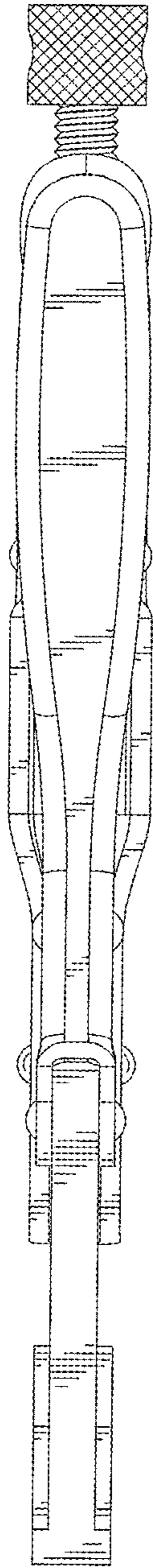


FIG. 7