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

(10) **Patent No.:** **US D742,194 S**

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(54) **LOCKING PLIERS**

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(\*) Notice: This patent is subject to a terminal disclaimer.

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/488,937**

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(52) **U.S. Cl.**  
USPC ..... **D8/52**

(58) **Field of Classification Search**  
USPC ..... D8/4, 5, 51-58, 71, 72, 105-107;  
29/229; 81/302, 338  
CPC ..... B25B 27/205; B25B 7/08; B25B 7/14;  
B25B 7/18; Y10T 29/5363  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

730,641	A *	6/1903	Hall	.....	254/249
1,323,127	A *	11/1919	Treuthardt	.....	269/45
3,040,420	A *	6/1962	Kulp	.....	29/229
3,313,190	A *	4/1967	Bothum	.....	81/323
3,681,840	A *	8/1972	Pool	.....	29/229
4,538,485	A *	9/1985	Saila	.....	81/336

4,621,401	A *	11/1986	Anderson	.....	29/229
4,790,056	A *	12/1988	Anderson	.....	29/229
4,896,661	A *	1/1990	Bogert et al.	.....	606/86 R
5,212,859	A *	5/1993	Hagerty	.....	29/229
6,134,993	A *	10/2000	Tally	.....	81/394
6,635,072	B1 *	10/2003	Ramamurti et al.	.....	606/208
6,736,031	B1 *	5/2004	Kang	.....	81/9.3
6,983,677	B1 *	1/2006	Engel	.....	81/302
7,007,357	B2 *	3/2006	Nakamoto	.....	29/229
7,194,936	B2 *	3/2007	Engel et al.	.....	81/302
D545,155	S *	6/2007	Kang	.....	D8/54
D596,910	S *	7/2009	Whitehead	.....	D8/52
8,919,228	B1 *	12/2014	Gao	.....	81/338
2008/0264216	A1 *	10/2008	Duffy	.....	81/302
2012/0174361	A1 *	7/2012	Wang	.....	29/229
2015/0013128	A1 *	1/2015	Wang	.....	29/229

\* cited by examiner

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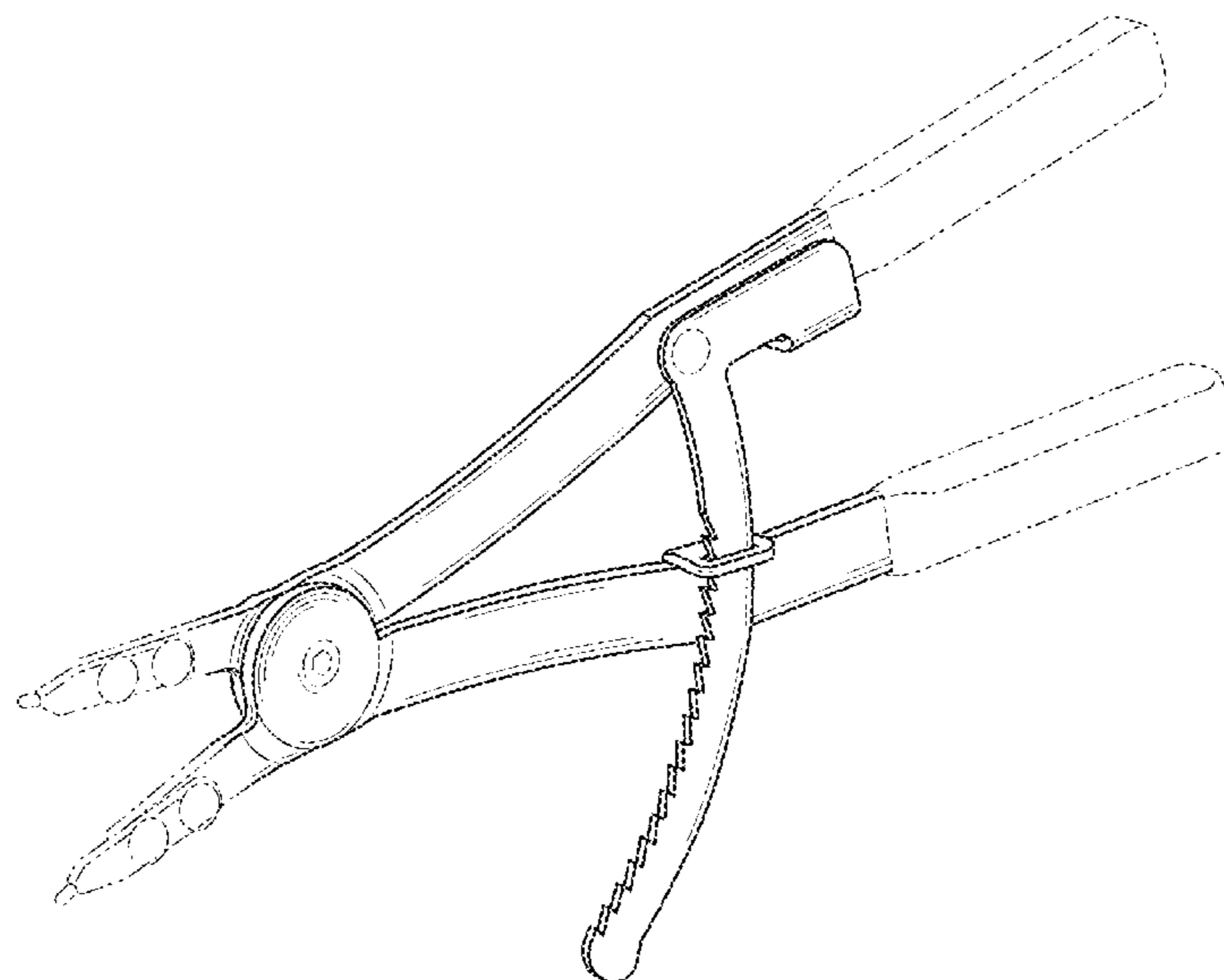
(57) **CLAIM**

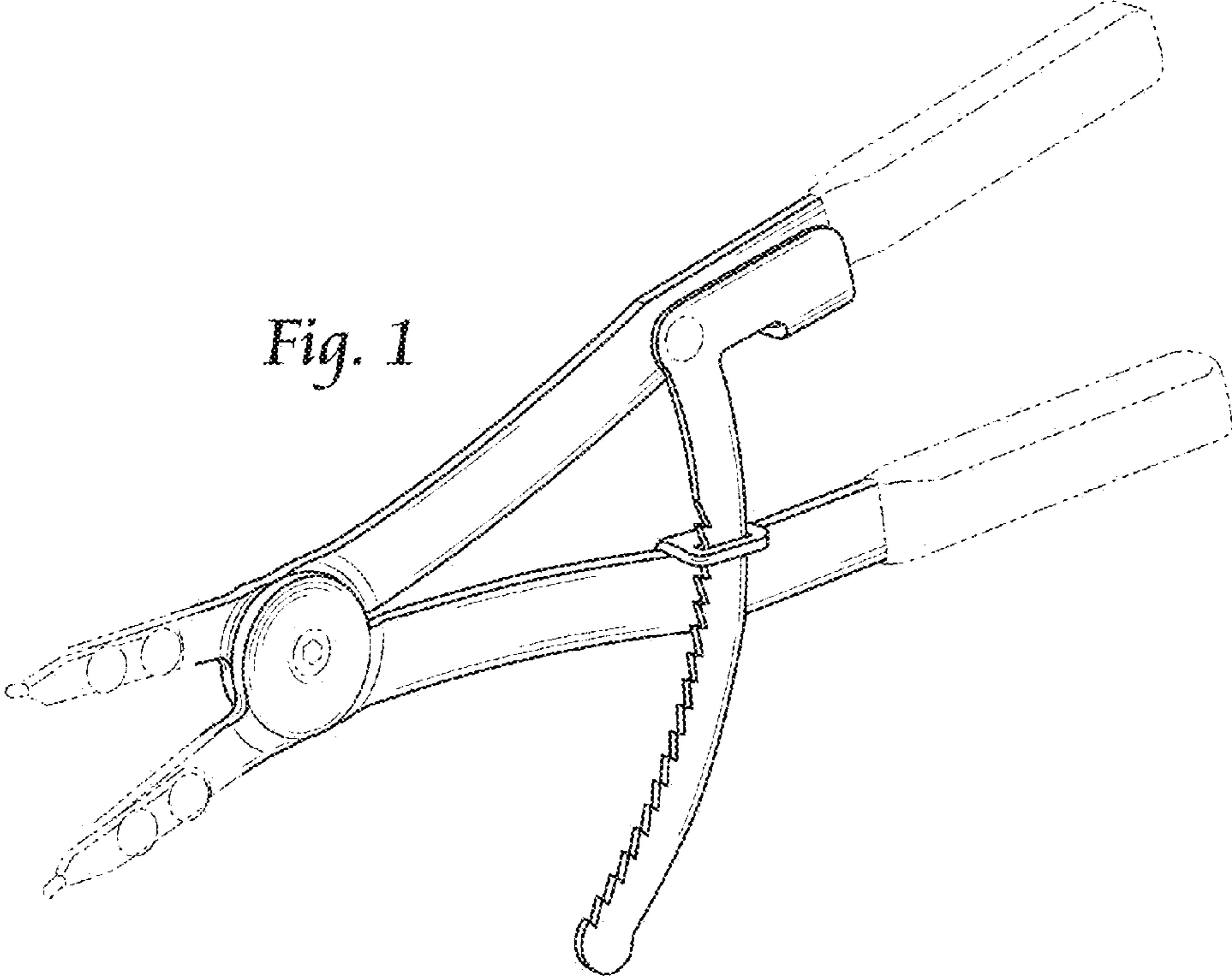
The ornamental design for a locking pliers, as shown and described.

**DESCRIPTION**

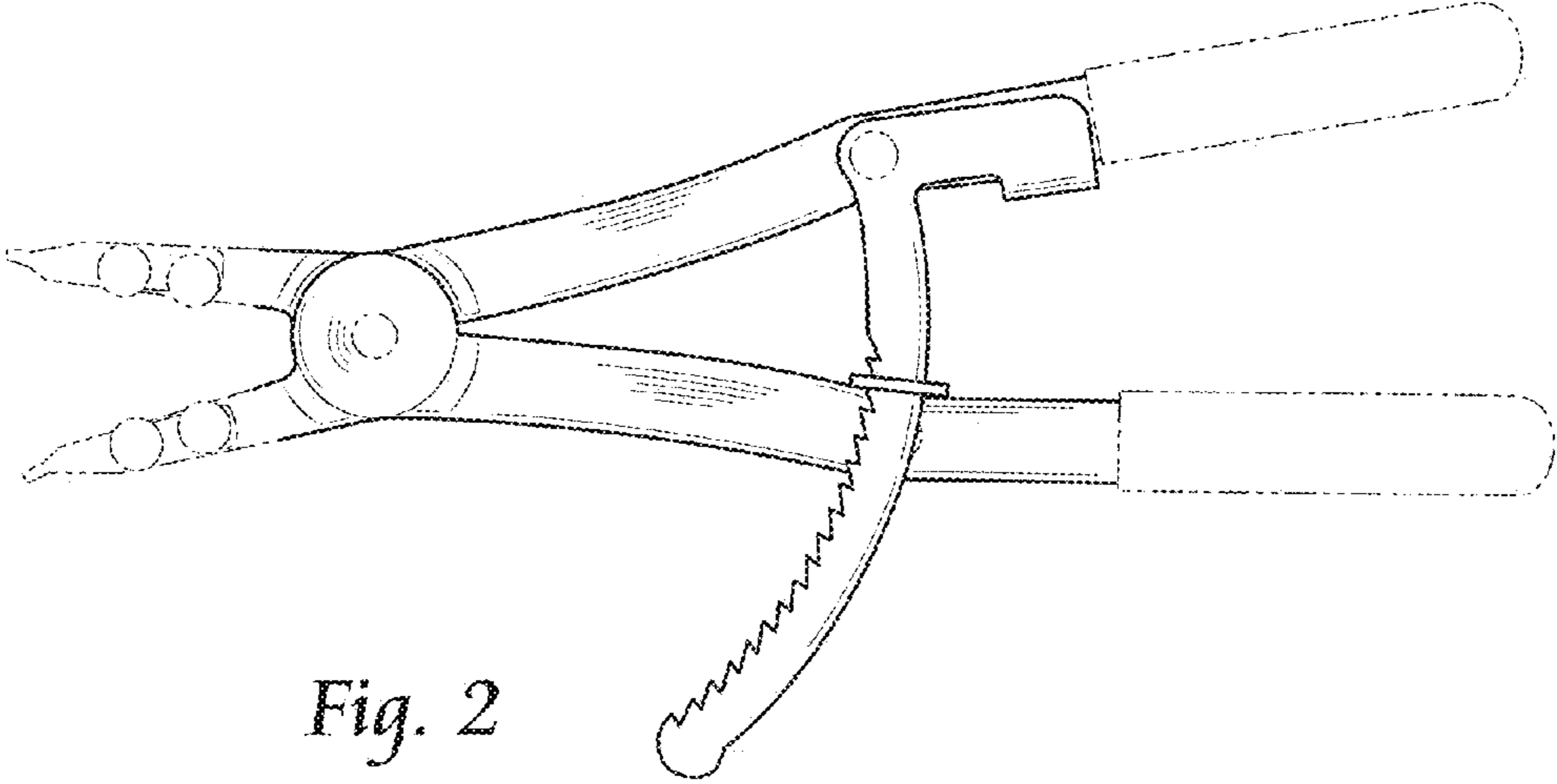
FIG. 1 is a perspective view of the locking pliers; FIG. 2 is a left side elevation view thereof; FIG. 3 is a right side elevation view thereof; FIG. 4 is a top plan view thereof; FIG. 5 is a bottom plan view thereof; FIG. 6 is a front elevation view thereof; and, FIG. 7 is a rear elevation view thereof. The broken lines in the drawings illustrate portions of the locking pliers that form no part of the claimed design.

**1 Claim, 2 Drawing Sheets**

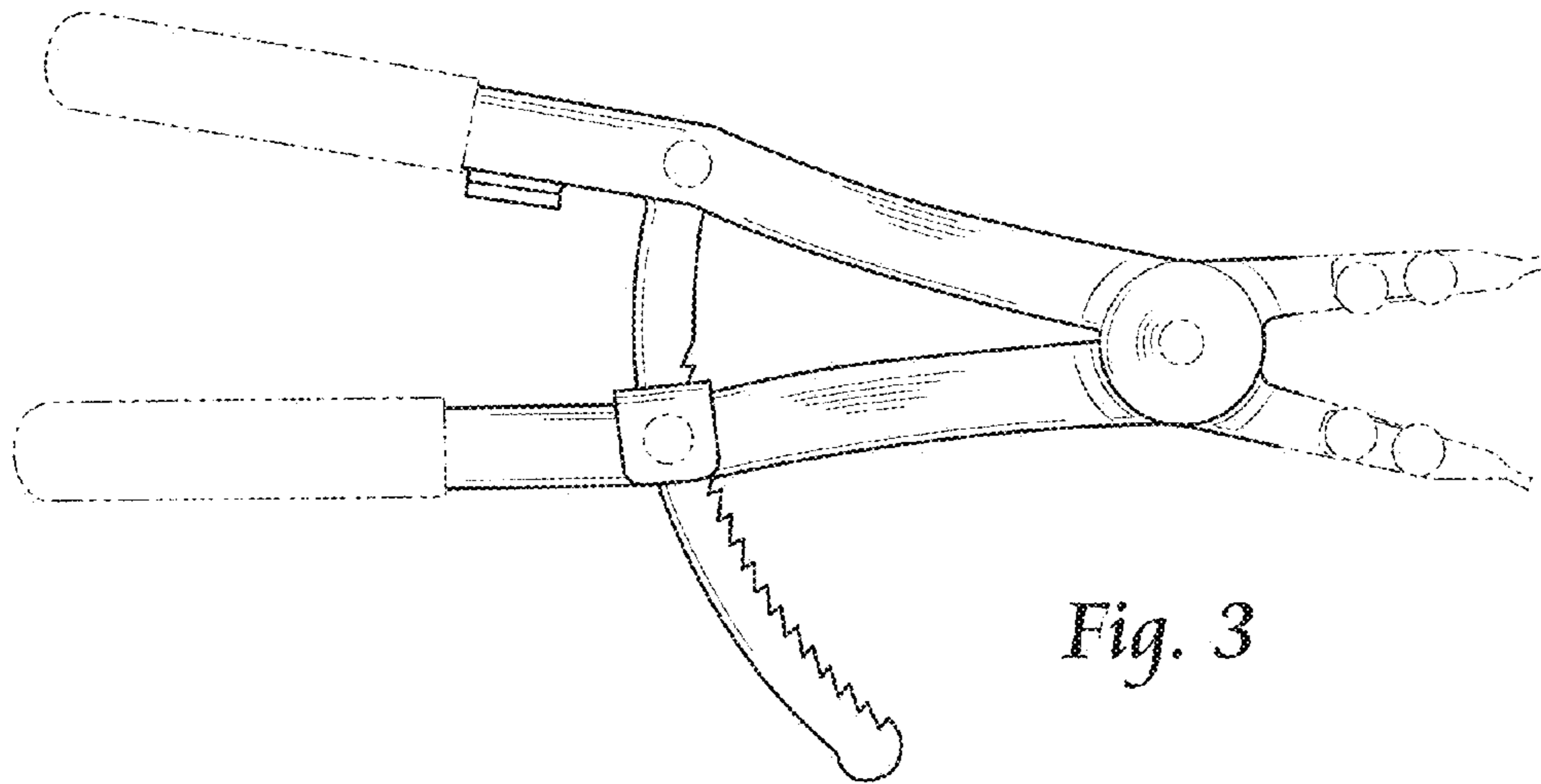




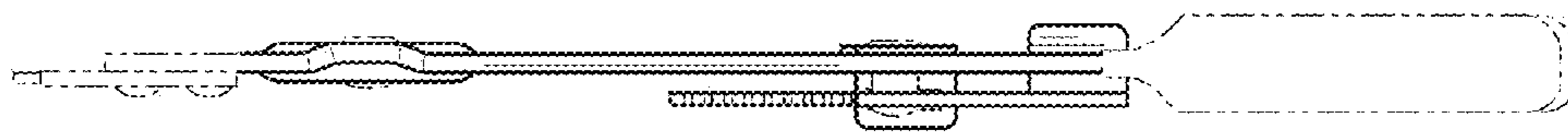
*Fig. 1*



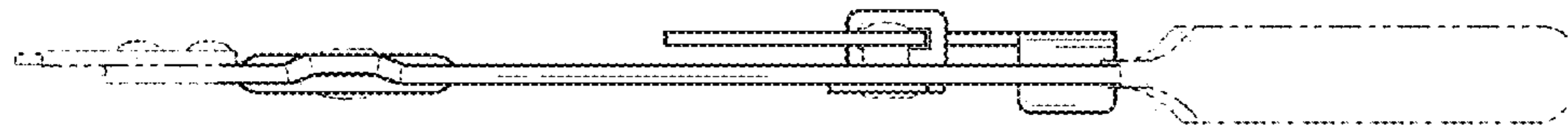
*Fig. 2*



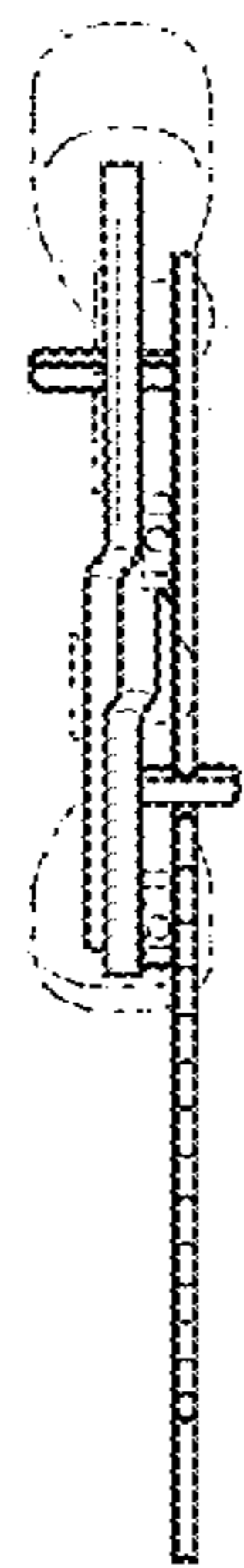
*Fig. 3*



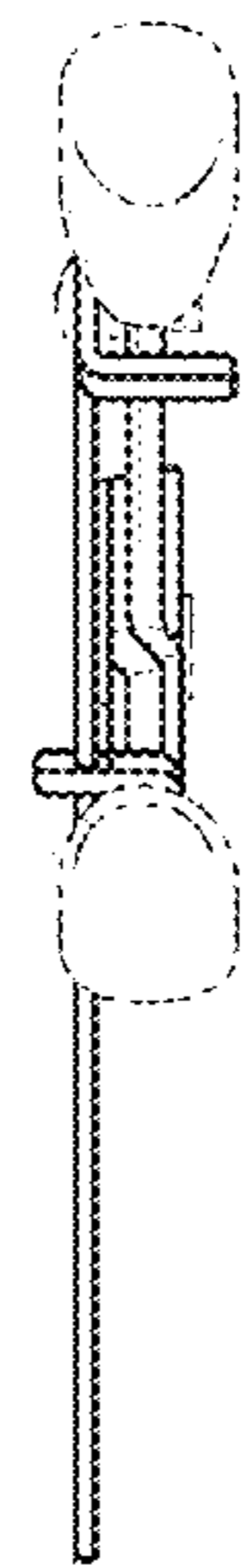
*Fig. 4*



*Fig. 5*



*Fig. 6*



*Fig. 7*