United States Patent [19]

Nakamura et al.

[11] Des. 272,122

[45] ** Jan. 10, 1984

[54]	FOOT OP	ERATED VICE
[75]	Inventors:	Masahiko Nakamura, Matsuzaka; Takashi Yokoyama, Mie, both of Japan
[73]	Assignee:	Kabushiki Kaisha Matsuzaka Tekkosho, Mie, Japan
[**]	Term:	14 Years
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[30]	Foreign	a Application Priority Data
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[51] Int. Cl D8—08		
[52]	U.S. Cl	D8/71 ; D8/74
[58] Field of Search 269/254 R, 254 CS, 231,		
269/235, 236, 229; D8/74; 81/97-99, 180 R		
[56] References Cited		
U.S. PATENT DOCUMENTS		
D.	245,753 9/1	977 D'Atri D8/72
2,	559,974 7/1	
2,	623,428 12/1	
2,	,639,638 5/1	953 Gould 81/180 R
2,	,649,824 8/1	953 Maxwell 81/99
2,	713,280 7/1	955 Larson 81/99
•		961 Schaufelberger et al 269/254 CS
3	410 072 13/1	040 Marianalii 01/00

OTHER PUBLICATIONS

3,418,873 12/1968 Moriwaki 81/99

Reed Manufacturing Co. Ad., Industrial Equipment News, Oct. 1962, p. 92.

Primary Examiner—Wallace R. Burke
Assistant Examiner—Horace B. Fay, Jr.
Attorney, Agent, or Firm—Wenderoth, Lind & Ponack

[57] CLAIM

The ornamental design for foot operated vice, substantially as shown.

DESCRIPTION

FIG. 1 is a side elevation view of the foot operated vice of the present design;

FIG. 2 is a side elevation view thereof, from the opposite side of FIG. 1;

FIG. 3 is an end view from the left side of FIG. 1 thereof;

FIG. 4 is an end view from the right side of FIG. 1 thereof;

FIG. 5 is a plan view thereof;

FIG. 6 is a bottom view thereof;

FIG. 7 is a section taken along line VII—VII of FIG. 1; FIG. 8 is a section taken along line VIII—VIII of FIG. 5;

FIG. 9 is a view similar to FIG. 1, but showing the vice in the operative position thereof engaging an article;

FIG. 10 is a side elevation view of a further embodiment of the foot operated vice of the present design;

FIG. 11 is a side elevation view thereof from the opposite side of FIG. 10;

FIG. 12 is an end view thereof, taken from the left side of FIG. 10;

FIG. 13 is an end view thereof, taken from the right side of FIG. 10;

FIG. 14 is a plan view thereof;

FIG. 15 is a bottom view thereof;

FIG. 16 is a section taken along line XVI—XVI of FIG. 10;

FIG. 17 is a section taken along line XVII—XVII of FIG. 14;

FIG. 18 is a view similar to FIG. 10, but showing the vice in the operative position thereof engaging an article;

FIG. 19 is a side elevation view of a still further embodiment of the foot operated vice of the present design; FIG. 20 is a side elevation view thereof from the oppo-

site side of FIG. 19; FIG. 21 is an end view thereof, taken from the left side

of FIG. 19; FIG. 22 is an end view thereof, taken from the right side of FIG. 19;

FIG. 23 is a plan view thereof;

FIG. 24 is a bottom view thereof;

FIG. 25 is a section taken along line XXI—XXI of FIG. 19;

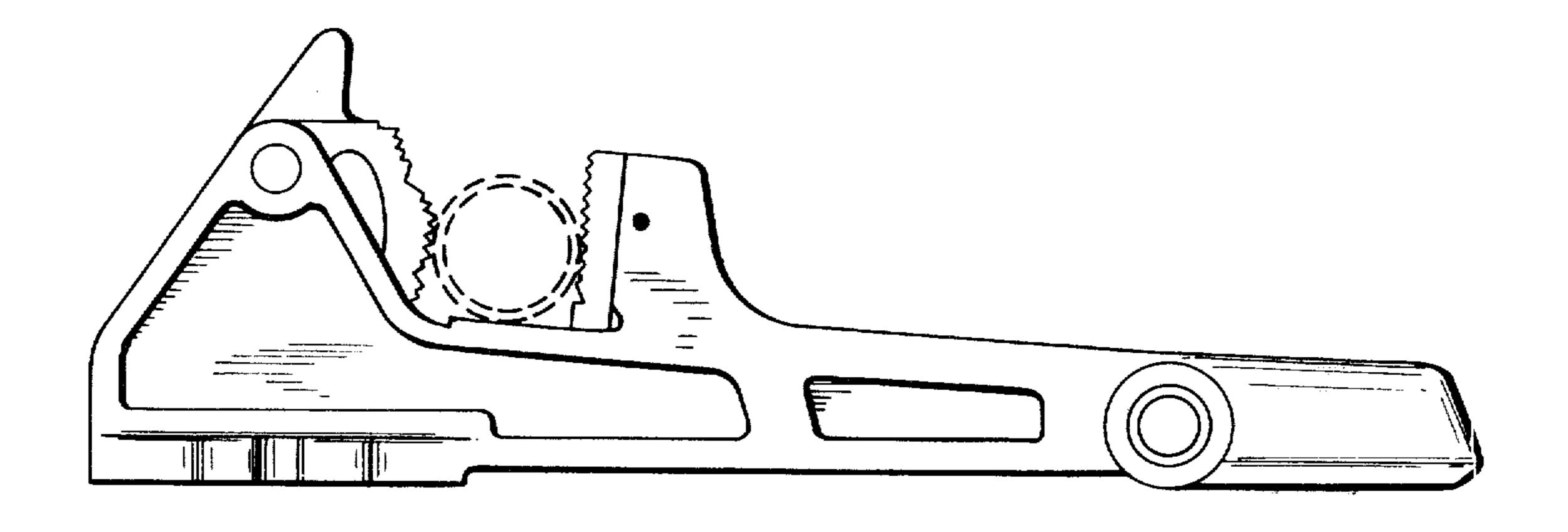
FÍG. 26 is upper portion of a section taken along line XXII—XXII of FIG. 19;

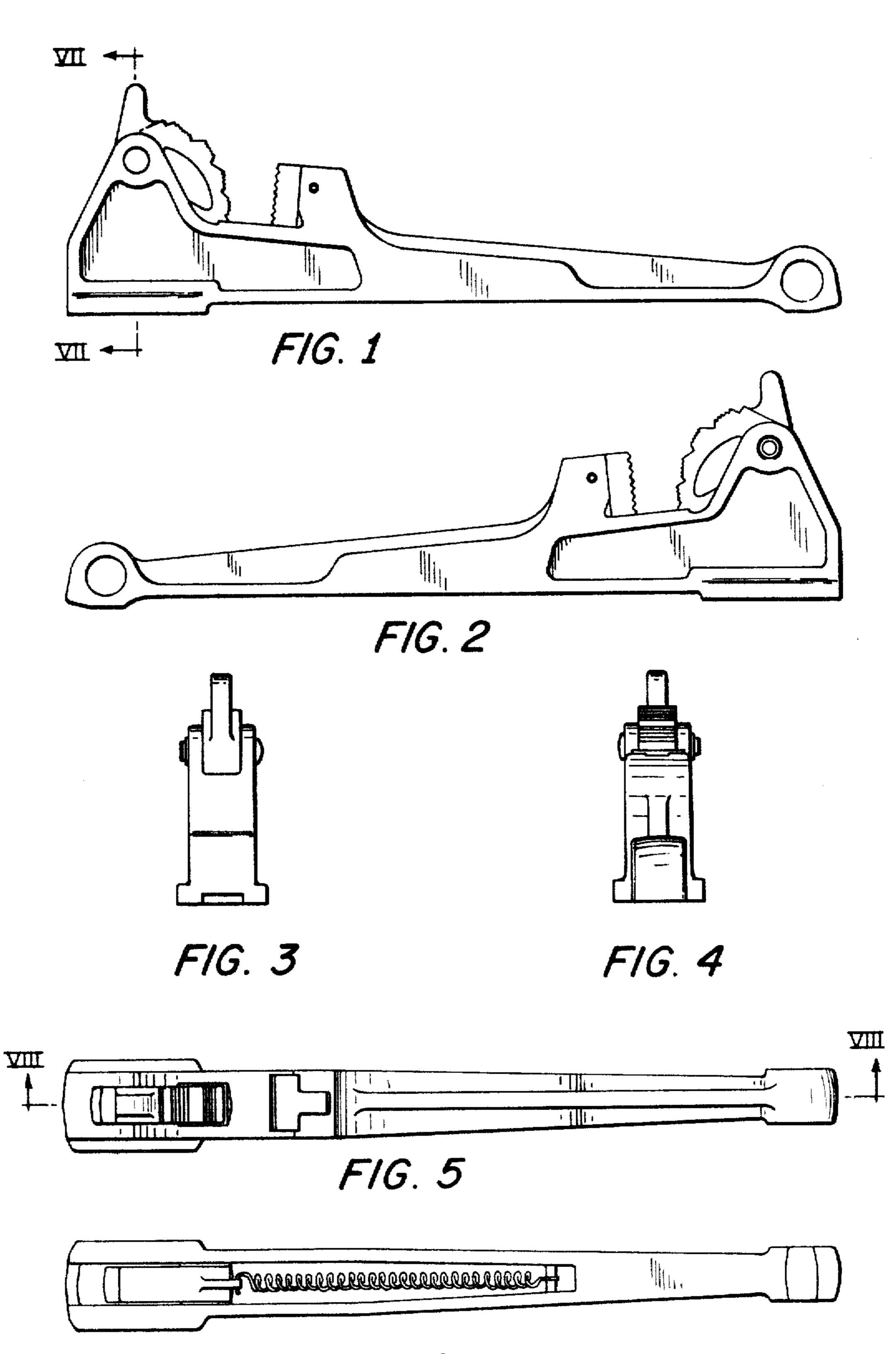
FIG. 27 is a section taken along line XXIII—XXIII of FIG. 19;

FIG. 28 is a section taken along line XXIV—XXIV of

FIG. 23; and

FIG. 29 is a view similar to FIG. 19, but showing the vice in the operative position thereof engaging an article.





F/G. 6

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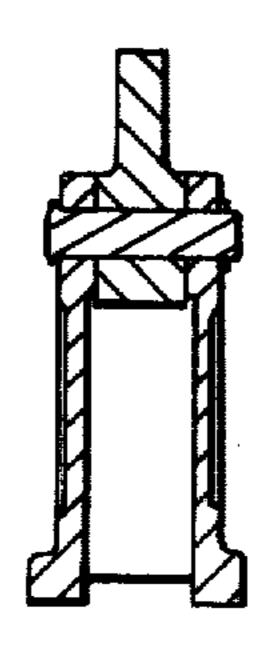
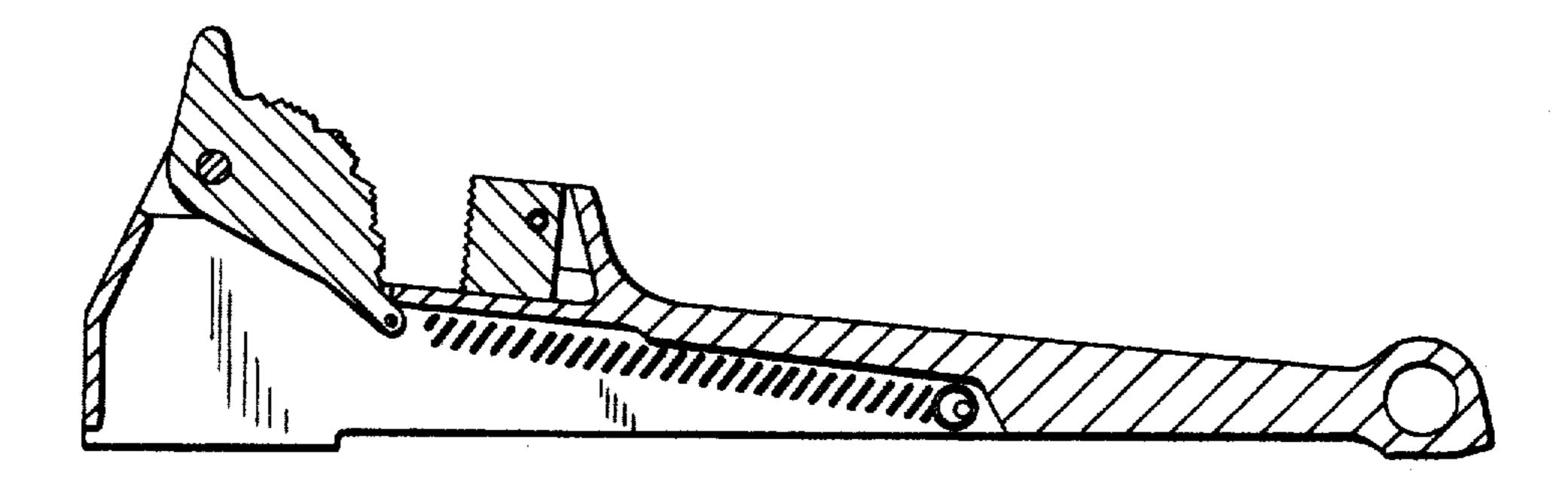
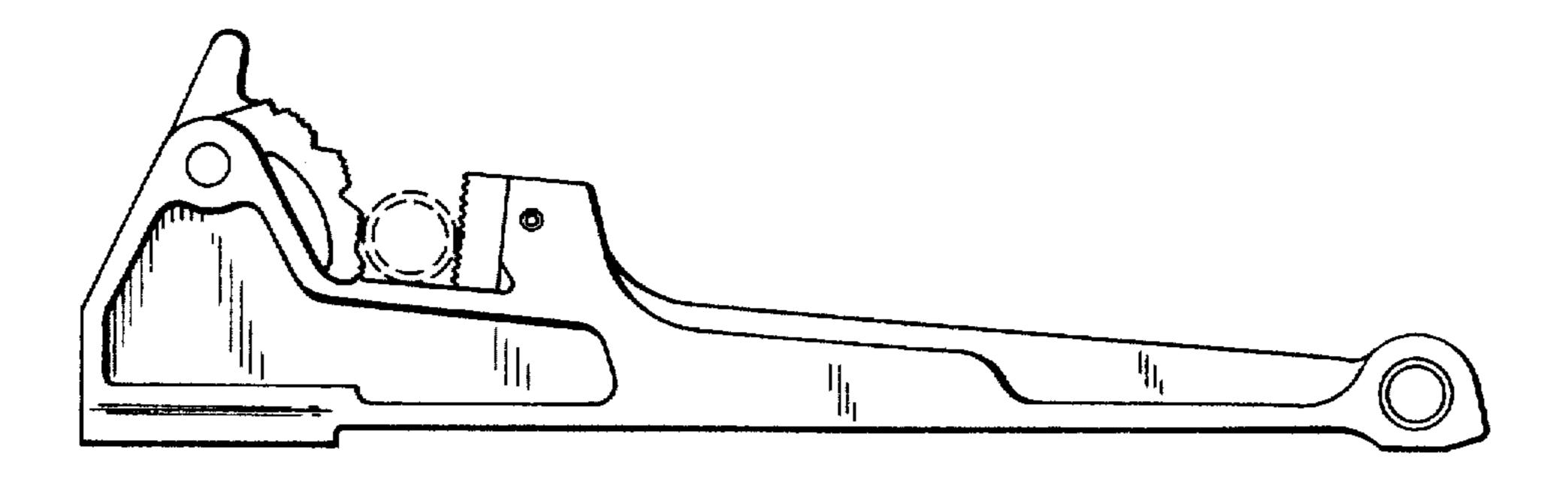


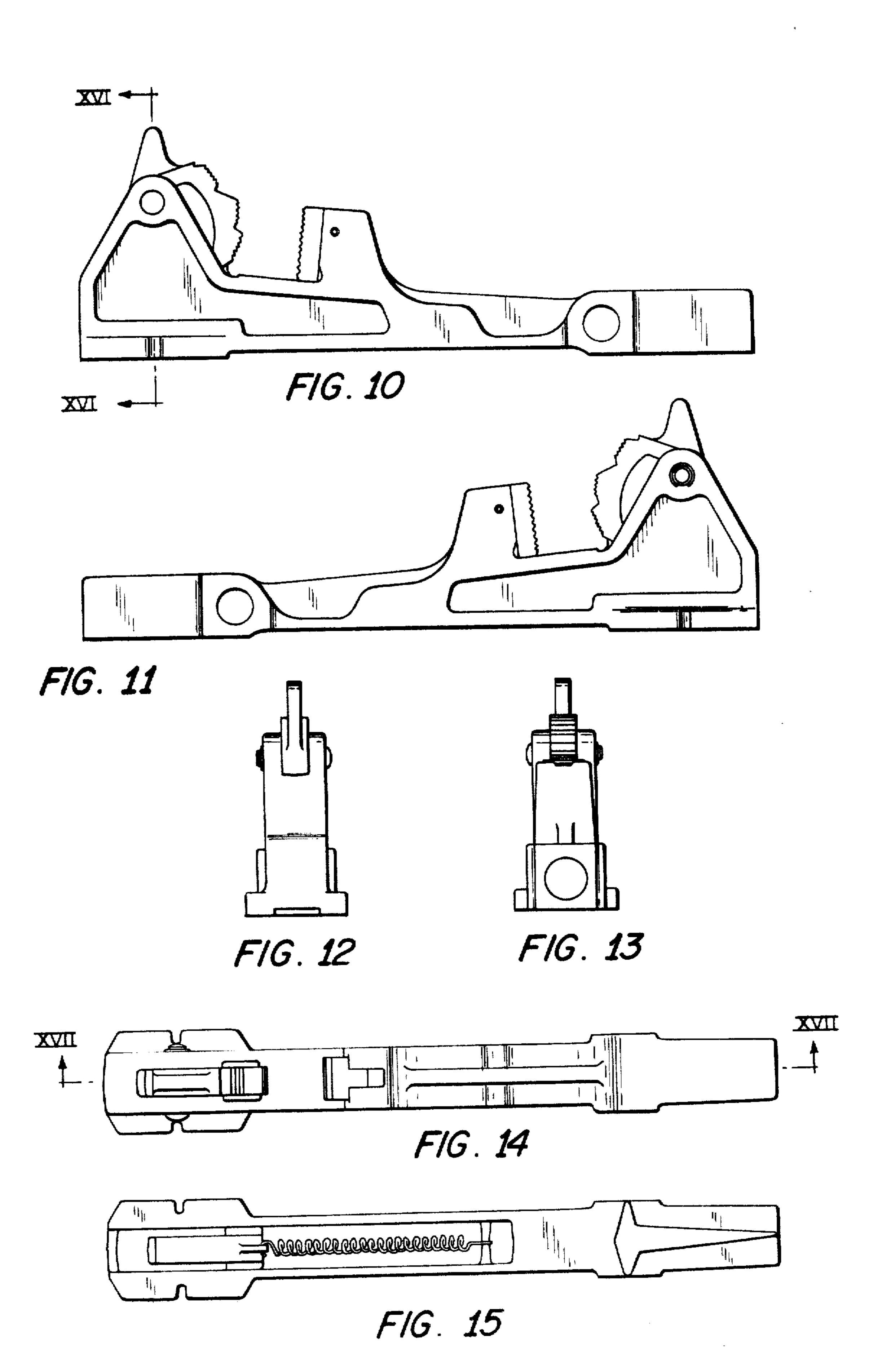
FIG. 7



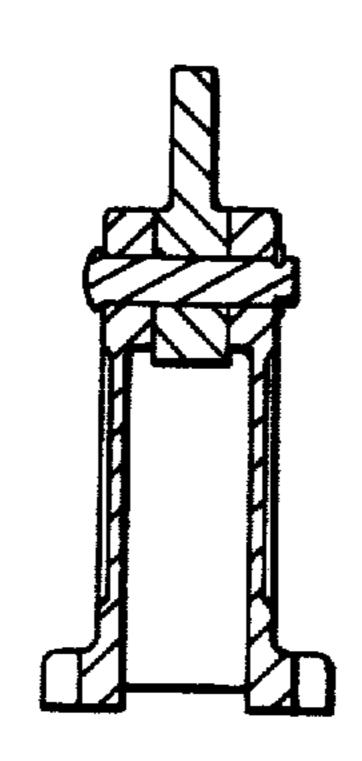
F/G. 8



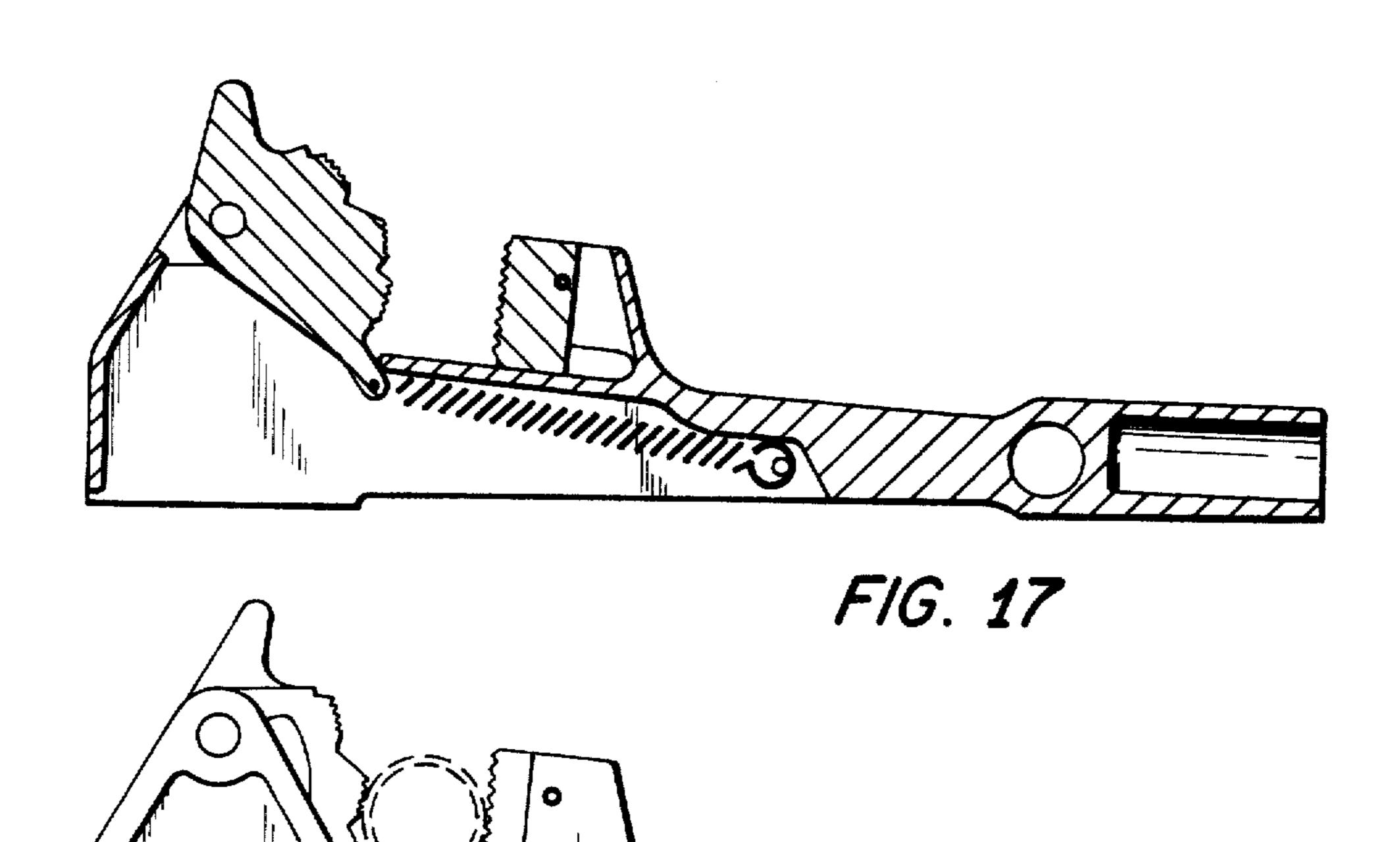
F/G. 9



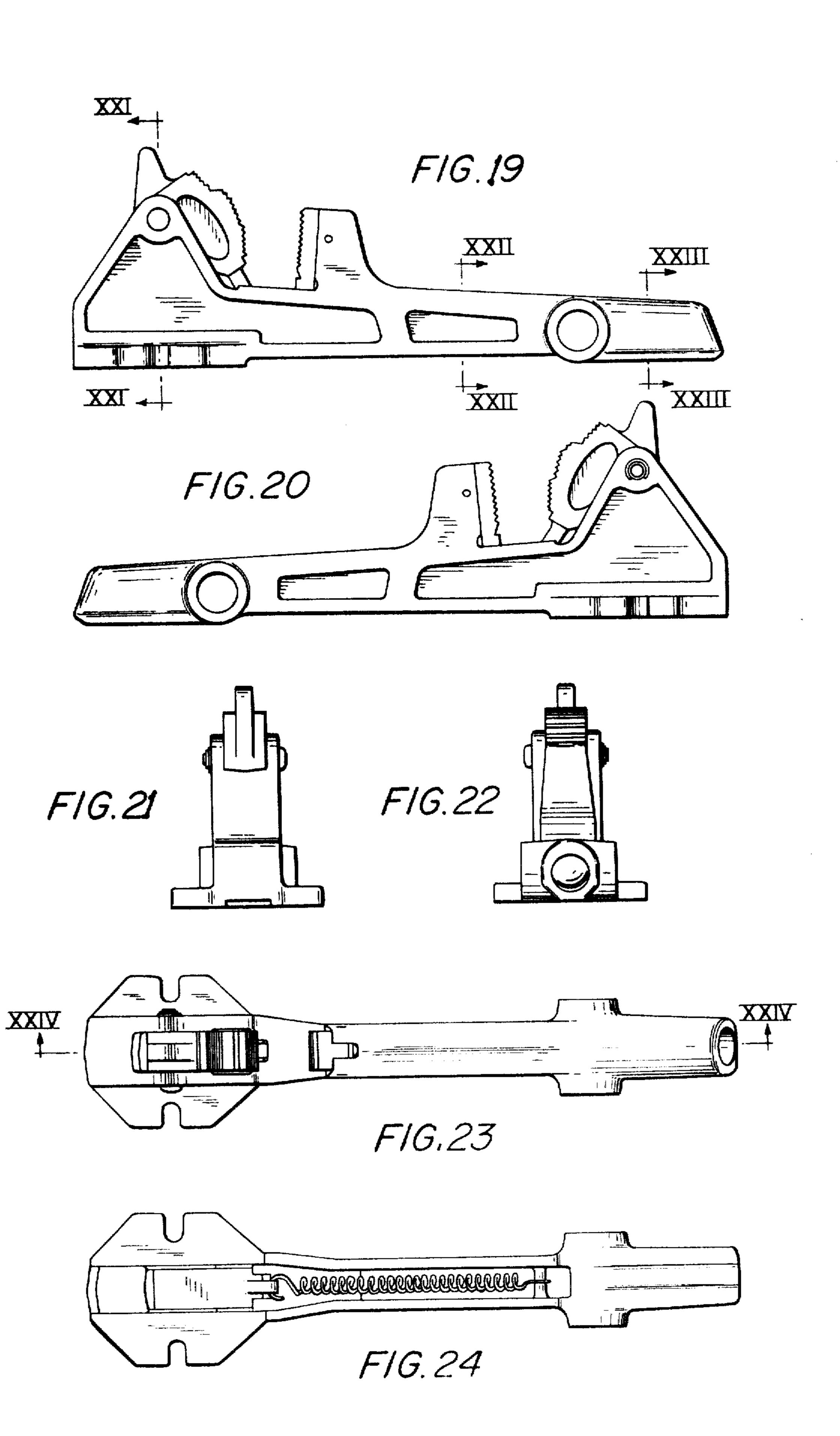
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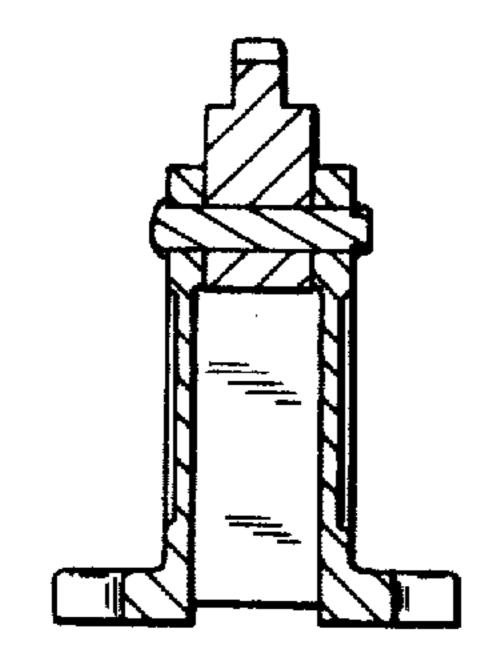
F/G. 16



F/G. 18



F/G. 25



F/G.26 F/G.27

