

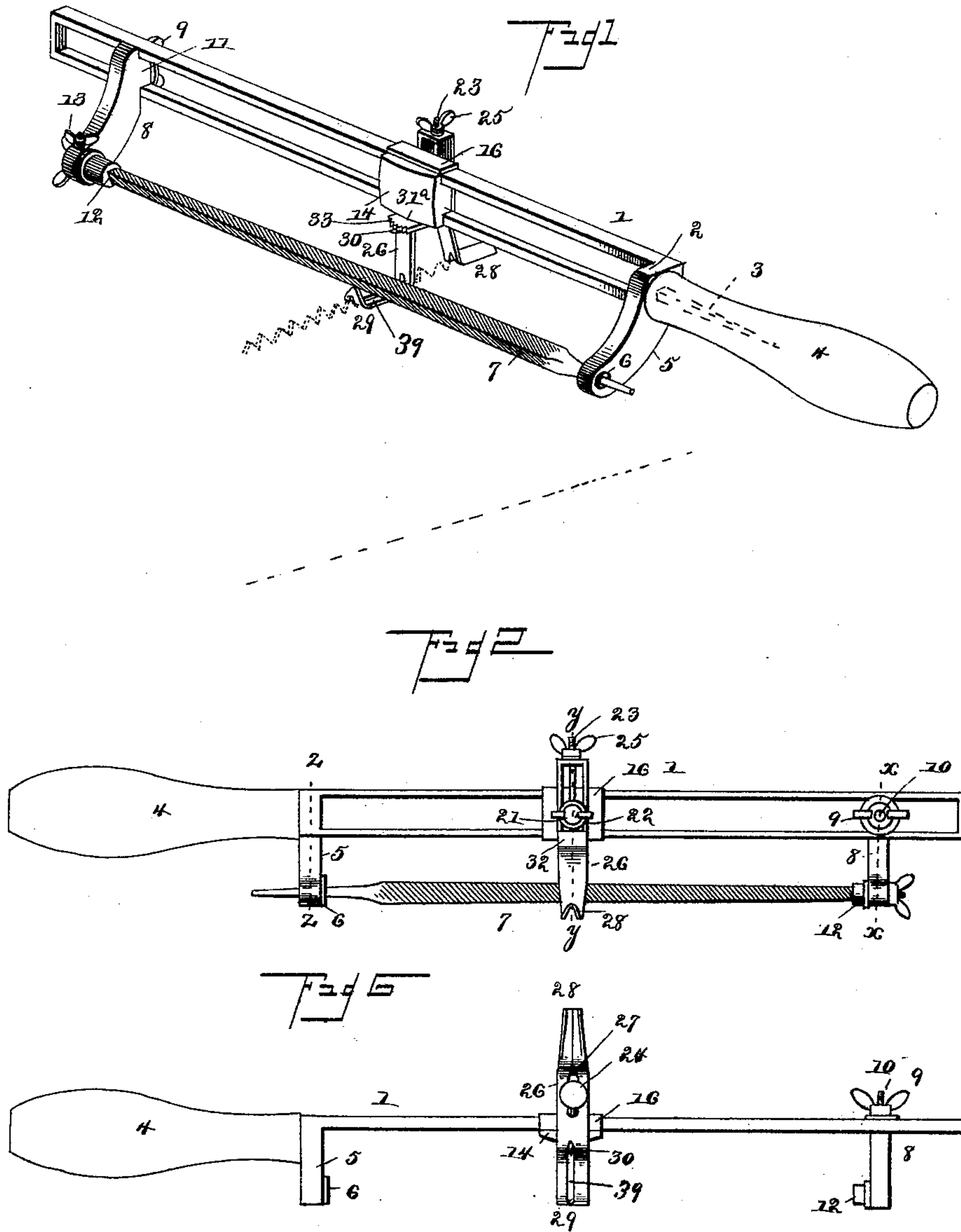
(No Model.)

2 Sheets—Sheet 1.

H. O. GADBERRY.
DEVICE FOR FILING SAWS.

No. 415,245.

Patented Nov. 19, 1889.



Witnesses

John Imirie
Wm. Bagger

By his Attorneys,

C. A. Snow & Co.

Inventor

Harvey O. Gadberry

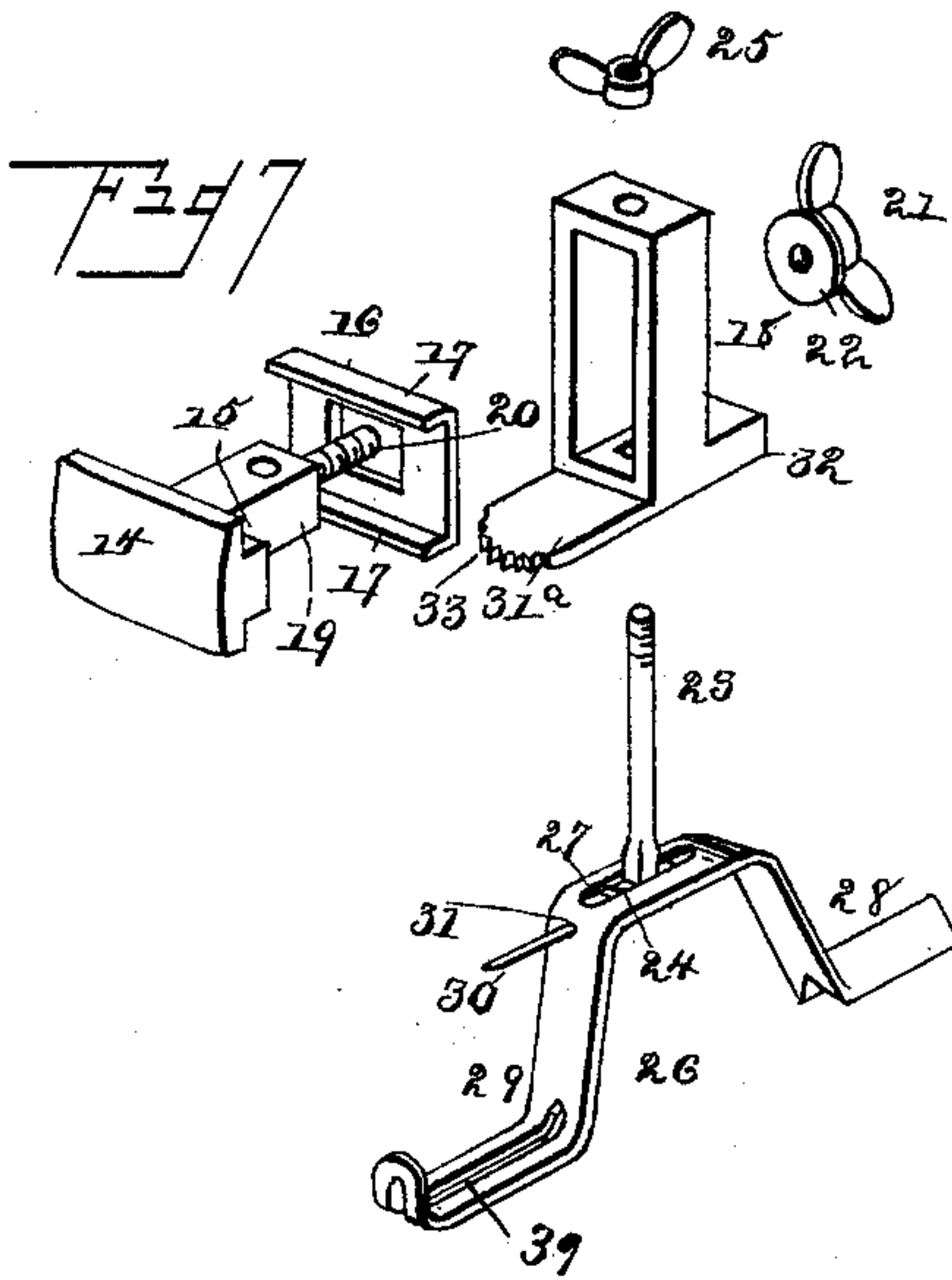
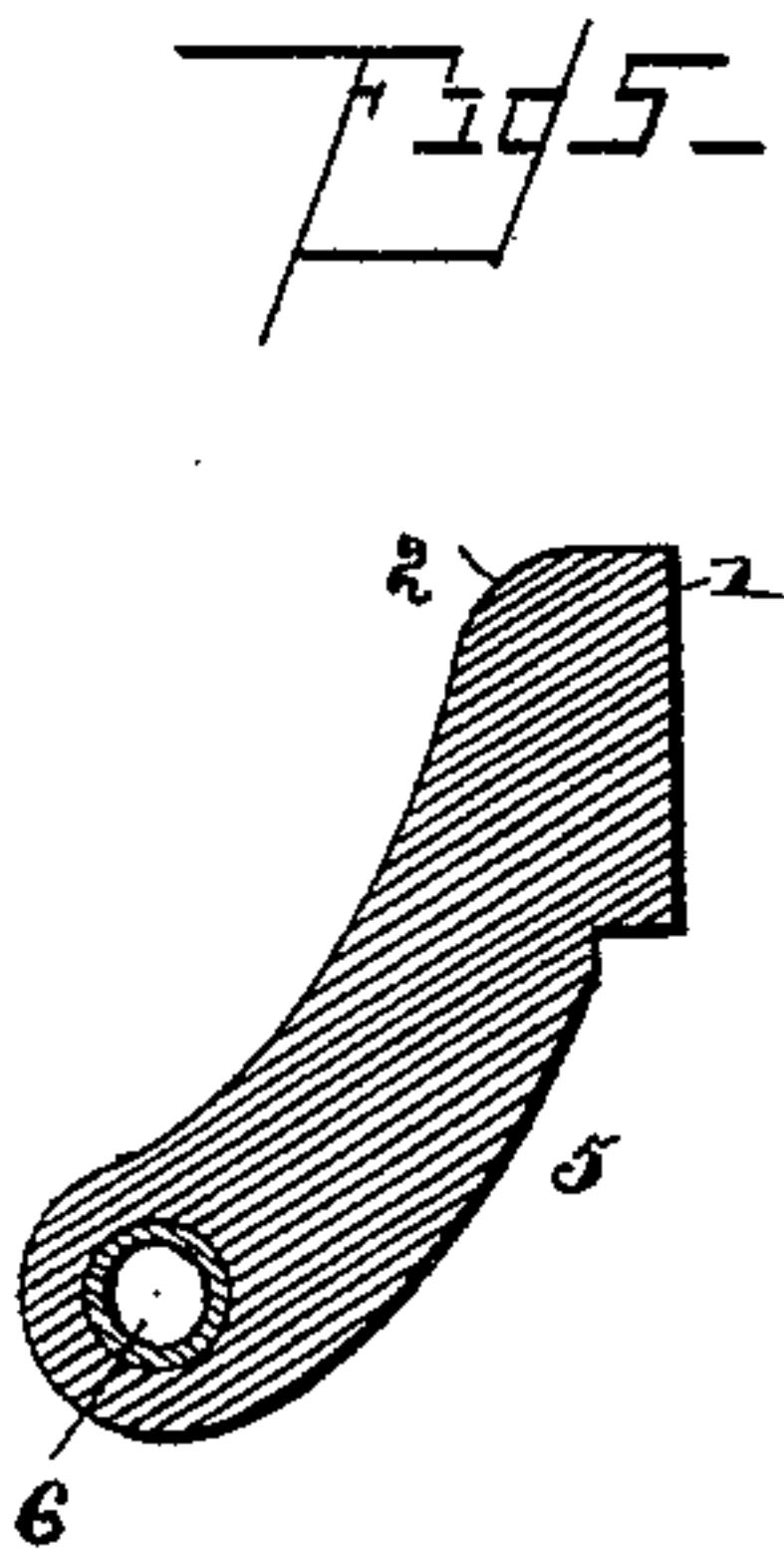
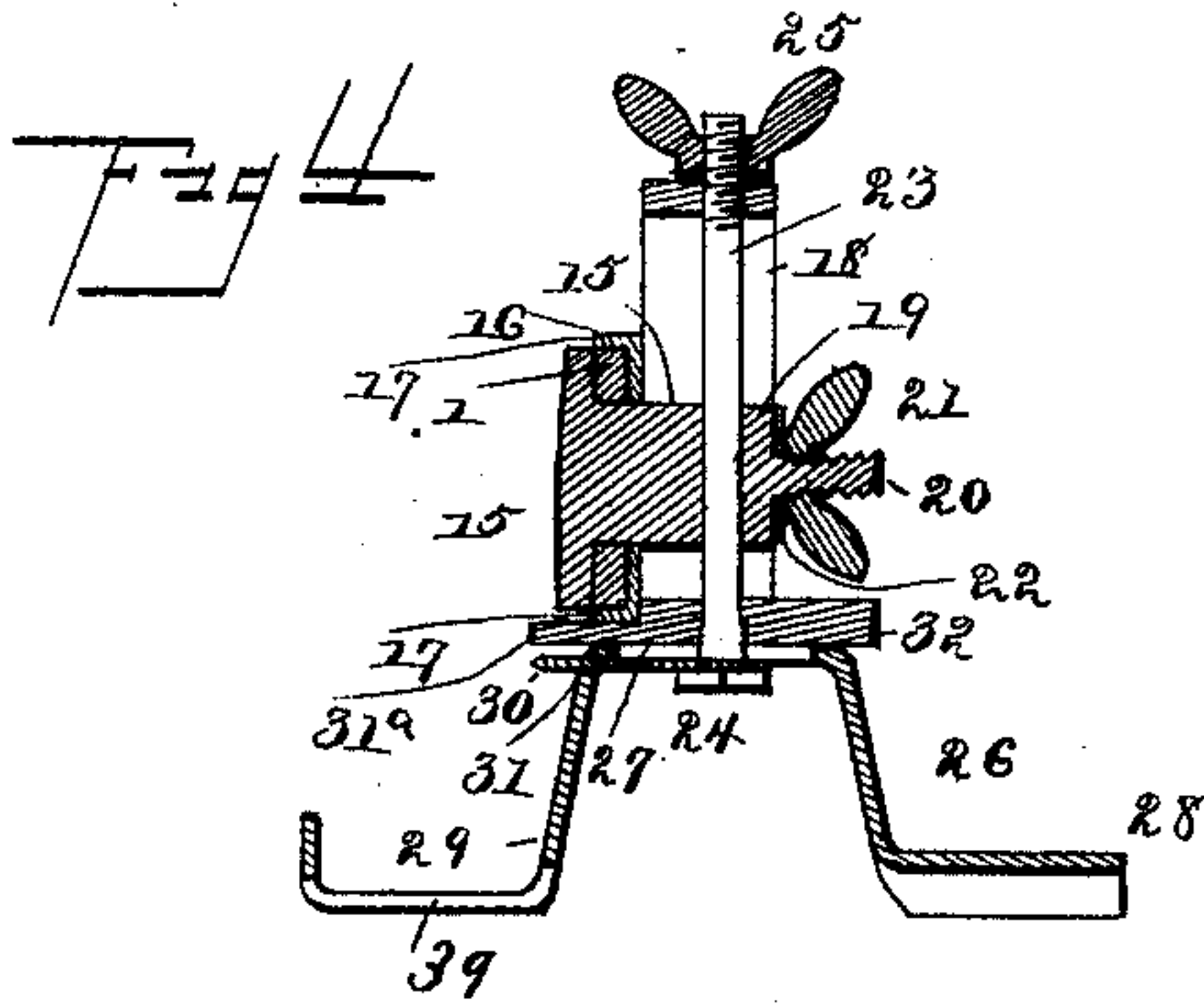
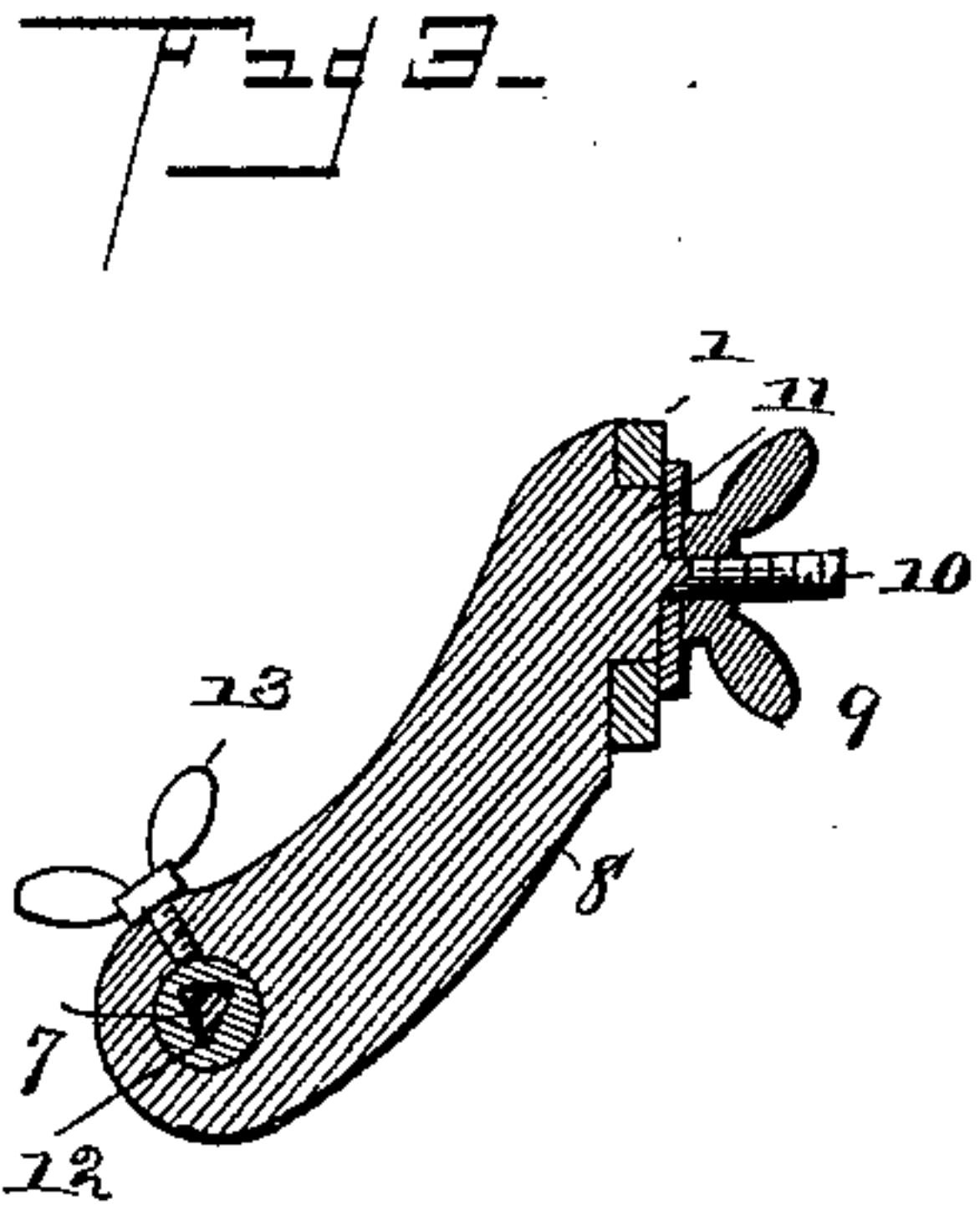
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UNITED STATES PATENT OFFICE.

HARVEY OSBORN GADBERRY, OF CAWKER CITY, KANSAS, ASSIGNOR OF
ONE-HALF TO JOHN W. DAVIS AND JOHN S. JOHNSTON, OF SAME
PLACE.

DEVICE FOR FILING SAWS.

SPECIFICATION forming part of Letters Patent No. 415,245, dated November 19, 1889.

Application filed July 23, 1889. Serial No. 318,370. (No model.)

To all whom it may concern:

Be it known that I, HARVEY OSBORN GADBERRY, a citizen of the United States, residing at Cawker City, in the county of Mitchell
5 and State of Kansas, have invented a new and useful Device for Filing Saws, of which the following is a specification.

This invention relates to devices for filing
10 saws; and it has for its object to provide a file handle or holder by means of which the file may be conveniently adjusted so as to operate upon saw-teeth of any size and pitch.

The invention consists in the improved
15 construction, arrangement, and combination of parts which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1
20 is a perspective view of my improved saw-filing device, showing the same with the file in position for operation. Fig. 2 is a side view of the same, taken from the opposite side. Fig. 3 is a transverse sectional view on the
25 line $x x$ in Fig. 2. Fig. 4 is a transverse sectional view taken on the line $y y$ in Fig. 2. Fig. 5 is a transverse sectional view taken on the line $z z$ in Fig. 2. Fig. 6 is a bottom view, and Fig. 7 is a detail view, showing the parts
30 constituting the adjusting-clamp separated or detached from each other.

Like numerals of reference indicate like parts in all the figures.

1 designates a narrow rectangular frame,
35 which is provided at its rear end with a laterally-projecting block 2, having a rearwardly-extending shank or tang 3, upon which the handle 4 is mounted. The block 2 has a laterally and downwardly extending bracket 5, in the lower or outer end of which is swiv-
40 eled a socket 6, adapted to receive the tang of an ordinary saw-file 7.

8 designates a bracket adjustable at the
45 front or outer part of the frame 1 by means of a thumb-nut 9, adjustable upon a screw-threaded shank 10, extending laterally from the said bracket. The latter is provided with a block 11, fitting between the upper and lower side bars of the frame 1 and serving to hold the said bracket rigidly in any position
50 to which it may be adjusted.

The bracket 8, which corresponds in size and shape to the bracket 5 at the rear end of the frame 1, is provided at its outer end with a swiveled socket 12, and it has a set-screw
55 13, adapted to bear against the said swiveled socket for the purpose of preventing it from rotating in its bearings. The socket 12 has a triangular recess adapted to receive the point of the file 7, which is used in connection
60 with my invention.

14 designates a block having a laterally-
65 extending portion which is fitted between the upper and lower side bars of the frame 1, so that the said block may slide longitudinally in the said frame and be guided therein by
its laterally-extending portion, which is des-
ignated by 15.

16 is a plate which is fitted against the side
70 of the frame 1, opposite to the block 14, and provided at its upper and lower edges with flanges 17, extending over the upper and lower edges of the said frame 1.

18 designates a rectangular frame, which
75 is fitted against the side of the plate 16, adjacent to the frame 1. The block 14 is provided with a bracket 19, extending laterally through the plate 16 and the frame 18, and terminating at its outer end with a screw-
80 threaded stem 20, upon which a thumb-nut 21 is adjusted, a washer 22 being interposed between the said thumb-nut and the frame 18, which latter may thus be clamped up
tightly against the plate 16 and frame 1. The bracket 19 is provided with a vertical
85 perforation for the passage of a stem 23, which extends vertically through the said bracket and through the frame 18. The lower end of the said stem has a head 24, and its upper end is screw-threaded and provided
90 with a set-nut 25. Mounted upon the lower end of the stem 23 is the gage 26, which has a slot 27, by means of which it may be adjusted transversely upon the lower end of the
said stem 23. The ends of the gage are pro-
95 vided with downwardly-projecting arms 28 29, the former of which is bent to an inverted-V shape, so as to be adapted to rest upon the upper edge of the saw which is to be operated upon. The arm 29 has a slot 39, through
100 which the saw-teeth which are to be oper-

ated upon may project. The lower end of the stem 23 has a pin or pointer 30, which extends through the perforation 31 in the saw-gage 26. The lower end of the frame 18 is provided with laterally-extending flanges 31^a and 32, the former of which is provided with notches 33, adapted to register with the pin or pointer 30, so as to indicate the angle at which the saw-guide is adjusted with relation to the rectangular frame 18 and the main frame 1.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The frame 1 is adapted to slide longitudinally with relation to the block 14 and the rectangular frame 18, to which latter the saw-gage is connected, as shown. The saw-gage may be adjusted at any desired angle by loosening the set-nut at the upper end of the stem 23, so as to enable saw-teeth of any pitch to be operated upon, and by loosening the thumb-nut 21 the rectangular frame 18, carrying the saw-gage, may be raised or lowered with relation to the longitudinally-sliding frame 1, carrying the file, thus enabling saw-teeth of different sizes to be operated upon.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a saw-filing device, the combination of a rectangular frame having brackets for the attachment and adjustment of the file, a block having a projecting portion fitting between the top and bottom bars of said frame, a plate fitted against the said projecting portion and having flanges overlapping the top and bottom bars of the frame, a vertical frame arranged adjacent to said plate, means for securing the said frame in position vertically adjustable, and the saw-gage mounted at the lower end of the said vertical bracket, substantially as set forth.

2. In a saw-filing device, the combination of the longitudinally-sliding rectangular frame carrying the file, a vertically-adjustable frame arranged adjacent to the bearing-block of the said rectangular frame, a stem

extending vertically through the said vertical frame, and the saw-gage mounted adjustably upon the lower end of the said stem, substantially as set forth.

3. In a saw-filing device, the combination of a bearing-block having a laterally-extending bracket terminating in a screw-threaded projection, a vertical frame mounted vertically adjustable upon the said bracket, a washer and thumb-screw to retain the said frame in position, a screw-threaded stem extending vertically through said vertical frame and bracket and having a set-nut at its upper end, the saw-gage mounted adjustably upon the lower end of the said stem, and a rectangular frame arranged to slide longitudinally with relation to the bearing-block and carrying the file, substantially as herein described, and for the purpose set forth.

4. In a saw-filing device, the combination of the bearing-block, the vertically-adjustable frame, a stem extending vertically through the latter, the saw-gage mounted adjustably at the lower end of said stem, a pin or pointer extending laterally from the latter and adapted to register with notches in a flange extending laterally from the vertically-adjustable frame, and the longitudinally-sliding frame carrying the file, substantially as set forth.

5. The combination of the bearing-block, the vertically-adjustable frame having a notched laterally-extending flange at its lower edge, a stem extending vertically through said frame and having a set-nut at its upper end, the saw-gage mounted at the lower end of said stem, a pin or pointer extending laterally from the said stem through a perforation in the saw-gage and adapted to register with the indicator-notches, and the longitudinally-sliding frame carrying the file, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

HARVEY OSBORN GADBERRY.

Witnesses:

S. B. CAIN,

R. M. PERRINE.