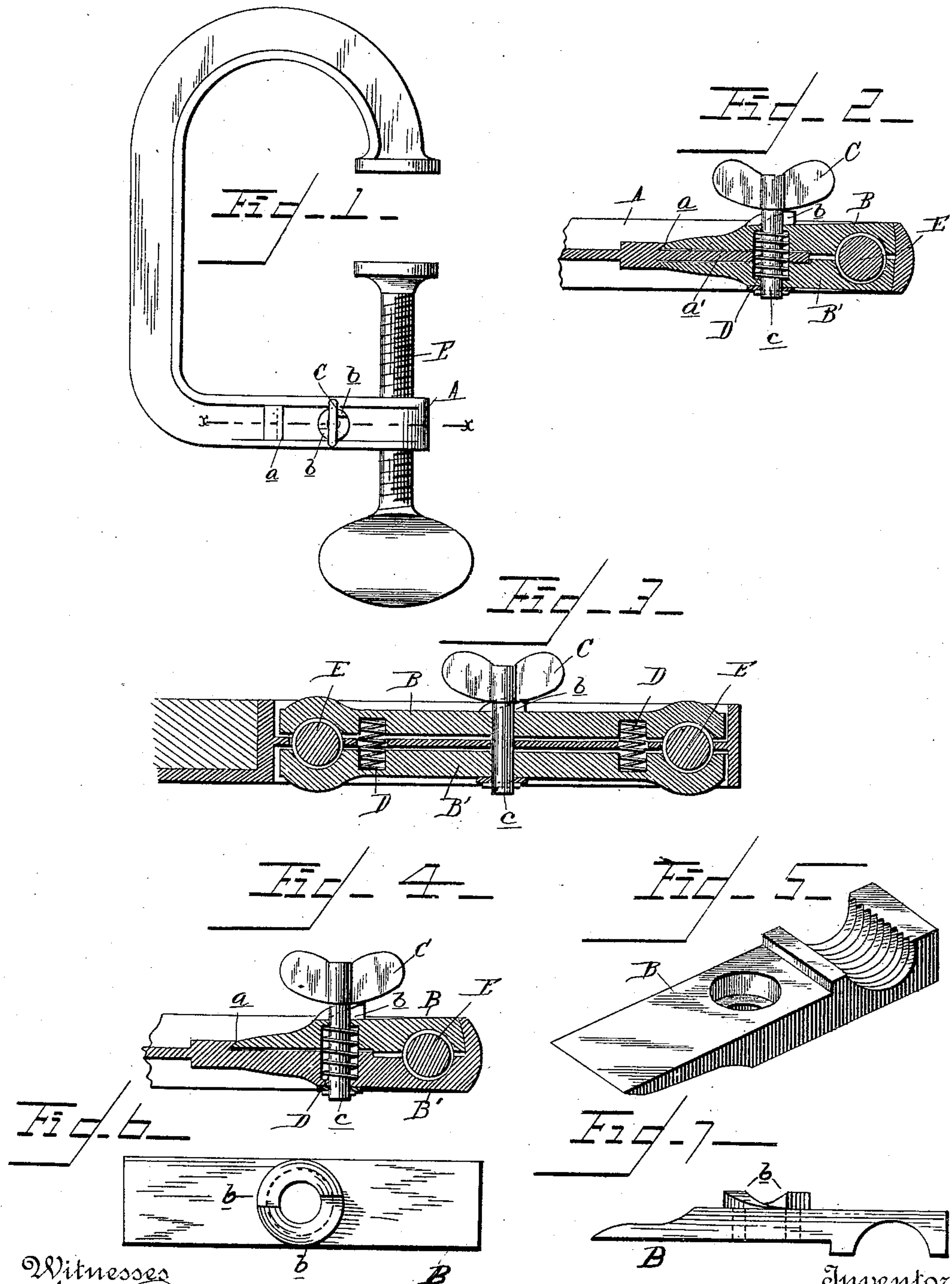


(No Model.)

P. BROWN.
CLAMP.

No. 444,484

Patented Jan. 13, 1891.



Witnesses
Wm J Robertson
Thos E Robertson

Inventor
Perry Brown
By his Attorney
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UNITED STATES PATENT OFFICE.

PERRY BROWN, OF LOUISVILLE, KENTUCKY.

CLAMP.

SPECIFICATION forming part of Letters Patent No. 444,484, dated January 13, 1891.

Application filed September 12, 1889. Serial No. 323,713. (No model.)

To all whom it may concern:

Be it known that I, PERRY BROWN, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Clamps, of which the following is a specification, reference being had therein to the accompanying drawings.

This improvement is designed to furnish clamps provided with screws, with means whereby they may be rapidly fastened and unfastened, as required; and the invention consists in the peculiar construction, arrangement, and combination of parts hereinafter more particularly described and then definitely claimed.

In the accompanying drawings, Figure 1 shows a side view of a screw-clamp provided with my improvement. Fig. 2 is a longitudinal section of the same through the line $x x$ in Fig. 1. Fig. 3 is a cross-section of a double clamp on the same plan adapted to be used on hand-screws. Fig. 4 is a cross-section of a modification of Fig. 1. Fig. 5 is a detached view of one of the jaws. Fig. 6 is an elevation, and Fig. 7 is an edge view, of the same.

Referring now to the details of the drawings and more particularly to Figs. 1 and 2, A represents the body of the clamp, in which are set two jaws B B', having threads cast or otherwise formed on one of their ends and their other ends tapered off to fit in recesses a in the body A. At C is shown a thumb-piece having a shank c , which passes through the jaws and through the rib a' , formed on the body, and is held by a washer and pin, as plainly shown. Surrounding this shank is a spring D, which acts against the jaws and forces them open. On the jaw B is formed one or more inclines b , (preferably two, as shown in Figs. 6 and 7,) on which ride the lower edges of the thumb-piece which, as it is turned, presses the jaws together and thus firmly clamps the screw E between them. By this arrangement it will readily be seen that as the thumb-piece C is turned in one direction the spring opens the jaws B B', so that the screw can be readily and rapidly moved lengthwise through them, so as to allow of the head of the screw being brought into tolerably close contact with the object

to be clamped, when a turn of the thumb-piece C will bring the jaws close to the screw and hold the same firmly, so that a slight turn of the latter will securely hold whatever may be in the clamp. When it is desired to loosen the article held in the clamp, it is only necessary to turn the thumb-piece C, when the screw will readily slide through the jaws, and thus any article may be readily clamped or unclamped without the necessity of turning the screw for a long time before the screw will begin to act upon the article being clamped.

The device shown in Fig. 3 is more particularly adapted to be used on what is known as "hand-clamps" in which there are two screws. In this case the jaws are double, having threads at each end to embrace the two screws, and the thumb-piece is in the center with springs near each end instead of being around the shank of the thumb-piece, as in Figs. 1 and 2.

Fig. 4 shows a modification of Figs. 1 and 2, in which one of the jaws is cast integral with the body. In this case I generally thread only the removable jaw, although both might be threaded, if preferred. I consider this as the equivalent in some respects of the device heretofore described, in which two movable pieces are used.

What I claim as new is—

1. The combination, in a clamp, of the body A, the screw E, the jaws B B', embracing said screw, the spring D, the thumb-piece C, and an incline b between the jaws and the thumb-piece, substantially as described.

2. The combination, in a clamp, of the body A, the screw E, the thumb-piece C, the spring D, surrounding the shank of the thumb-piece, and the two movable jaws B B', embracing said screw and having on one of them the inclines b , all substantially as shown and described.

In testimony whereof I affix my signature, in the presence of two witnesses, this 3d day of September, 1889.

PERRY BROWN.

Witnesses:

ALEX. S. STEUART,
THOS. E. ROBERTSON.