

G. H. WHEELER.
JOINERS' BENCH-VISE.

No. 175,220.

Patented March 21, 1876.

Fig. 1

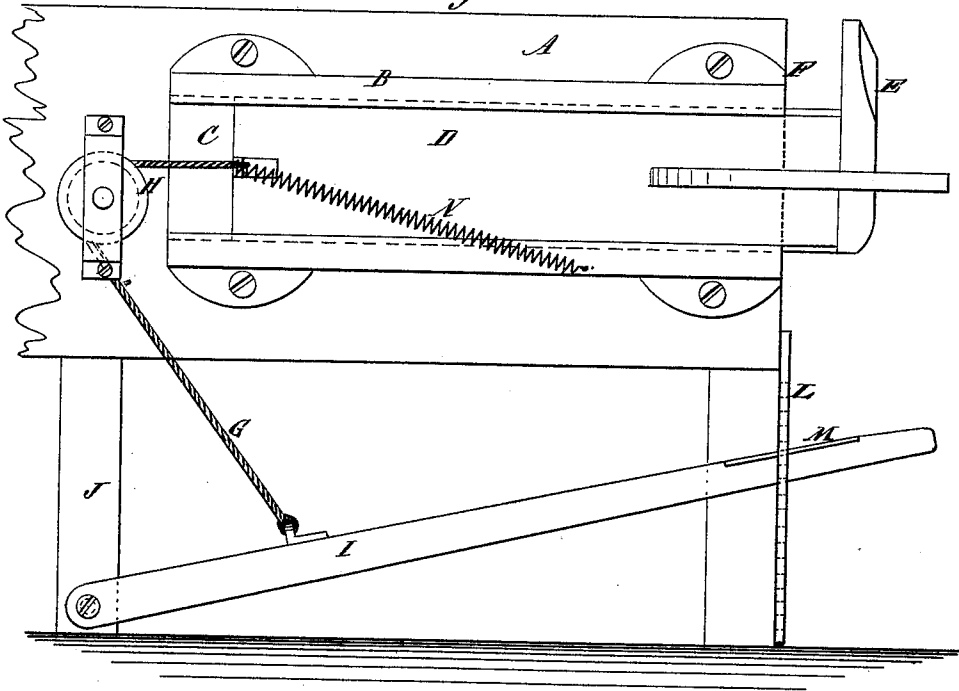
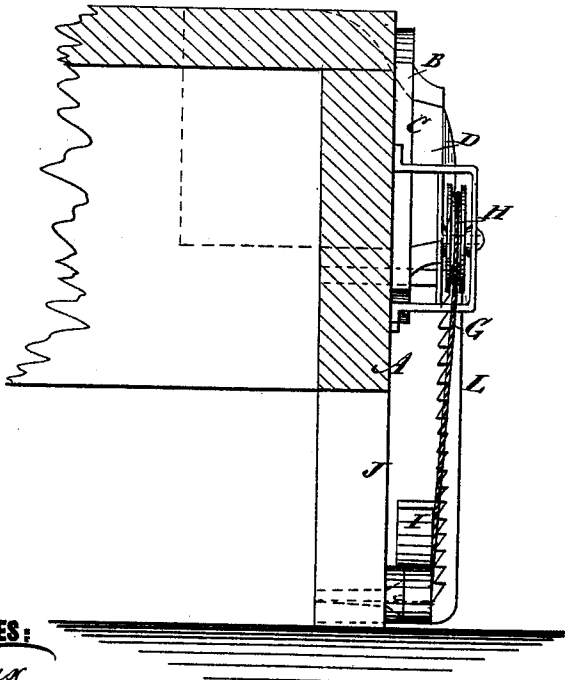


Fig. 2



WITNESSES:

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INVENTOR:

G. H. Wheeler

BY

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UNITED STATES PATENT OFFICE.

GEORGE H. WHEELER, OF GREAT BARRINGTON, MASSACHUSETTS.

IMPROVEMENT IN JOINERS' BENCH-VISES.

Specification forming part of Letters Patent No. **175,220**, dated March 21, 1876; application filed February 14, 1876.

To all whom it may concern:

Be it known that I, GEORGE H. WHEELER, of Great Barrington, Berkshire county, Massachusetts, have invented an Improvement in Joiners' Bench-Vises, of which the following is a specification:

My invention consists of a jaw fitted to slide in a plate attached to the end of the bench, and connected with a foot-lever for closing up the jaw on the work by foot-power, and a spring for opening it. A ratchet-bar is arranged in connection with the lever for fastening it to keep the jaw closed on the work. The jaw can be opened and closed much quicker than when worked by a screw, and it is always parallel to the work and the bench. The slide is connected to the lever by a rope or strap passing over a pulley, which will, in practice, be mounted on the plate on which the jaw slides.

Figure 1 is an end elevation of a bench having my improved vise attached, and Fig. 2 is a longitudinal sectional elevation of the bench.

Similar letters of reference indicate corresponding parts.

A is the end of the bench on which the plate B is bolted, said plate being grooved at C to receive the slide D, on the front end of which

is a jaw, E, projecting along the front side F of the bench, so as to clamp the work up to it. This slide D has a rope or strap, G, attached to it and passing over a pulley, H, and attached to the foot-lever I, which is pivoted to the leg J at the back of the bench, from which it extends a little beyond the front side of the bench to be pressed down by the foot for closing the vise. L is a notched bar to catch the lever and hold it down. M is a plate, by which the lever is protected from wear by the notched plate L. A spring, N, opens the vise when the foot-lever is released, but it may be opened by hand.

This arrangement makes a very simple and cheap vise that may be attached to any ordinary bench.

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

The combination, with bench A, of the grooved plate B, slide D, having jaw E, the cord G, passing over pulley H, and the lever, with its treadle end below the jaw, substantially as and for the purpose specified.

GEORGE H. WHEELER.

Witnesses:

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JNO. S. DODGE.