

L. B. PRINDLE.
Wrenches.

No. 144,134.

Patented Oct. 28, 1873.

Fig. 1.

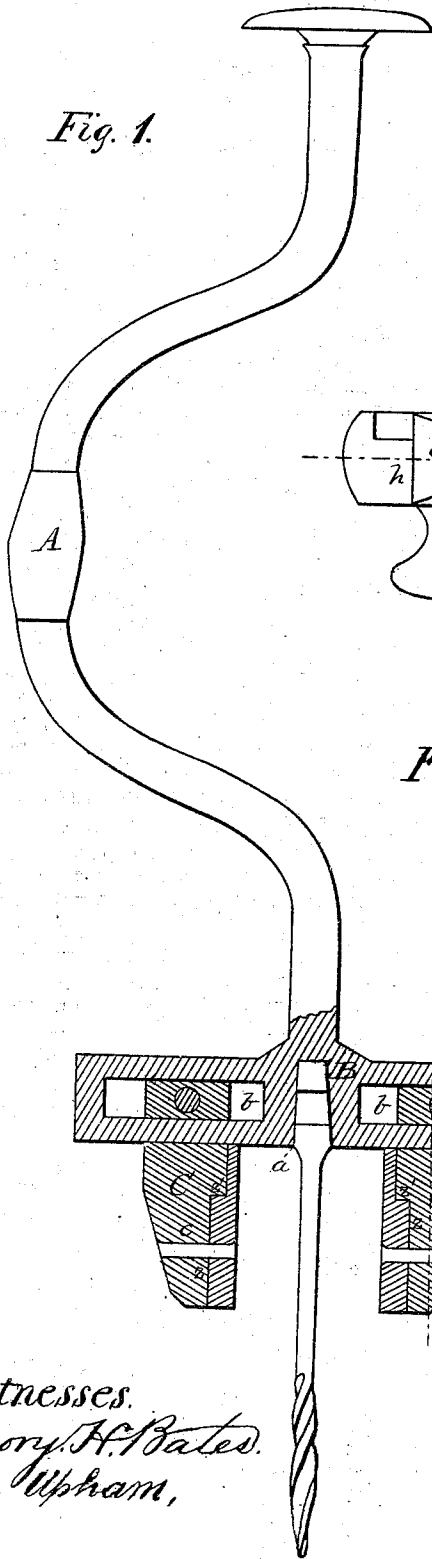


Fig. 2.

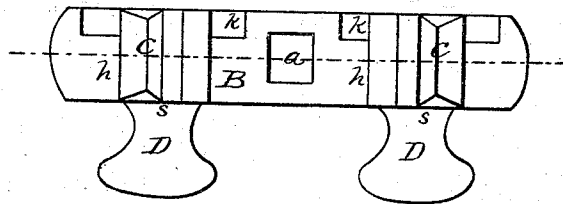
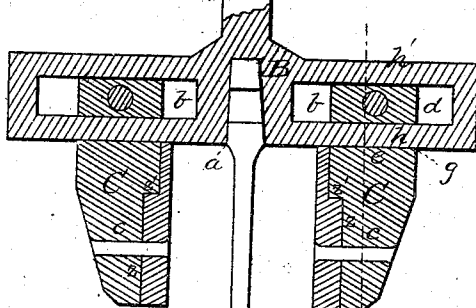
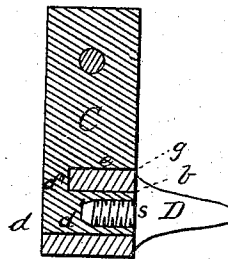


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

LYMAN B. PRINDLE, OF BANTAM FALLS, CONNECTICUT.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **144,134**, dated October 28, 1873; application filed July 12, 1873.

To all whom it may concern:

Be it known that I, LYMAN B. PRINDLE, of Bantam Falls, in the county of Litchfield and State of Connecticut, have invented a new and valuable Improvement in Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a sectional view of my wrench. Figs. 2 and 3 are detail views of the same.

This invention has relation to brace-wrenches; and it consists in the construction and novel arrangement of the notched jaw-blocks, slotted slide-bar, and clamp-screws, the object being to provide a simple, strong, and economical means of adjusting the jaws of such a wrench to or from the axis of the handle at equal distances, as hereinafter more fully described.

In the accompanying drawings, the letter A designates the brace-handle rigidly attached to the center of the slide-bar B, in such a manner that the latter will be transversely arranged and at right angles with the axis of the handle. Opposite the point at which the handle is attached a squared aperture or bit-seat, *a*, may be formed in the center of the slide-bar on its under side. On each side of the bit-seat the bar B is slotted horizontally and laterally, at *b*, for the reception of the upper projections of the jaw-blocks. Each jaw-block C is, in its general form, wedge-shaped, the lower portion being the jaw *c*, and the upper portion being extended to form a hook-shaped projection, *d*, the end *d'* of which is bent or turned laterally from the shank *d''*, and at right angles therewith, parallel with the shoulder *e* of the block. In this manner is formed, between the shoulder *e* and the hook end *d'*, a lateral rectangular notch, *g*, which is designed, when the projection *d'* is inserted into the slot *b* of the slide-bar, to receive the lower of the two parallel bars *h h'*, which bound said slot on its upper and lower sides. The upper bar, *h'*, is wider than the lower one, *h*, which is cut

away laterally or recessed, at *k*, on the side next the shank *d''*, so that when in position the outer face of the latter will be flush with the wall of the slide-bar, or with the edge of the upper bar, *h'*. In this manner the jaw is connected to the slide-bar on the side without unsightly lateral projections, the sides of the jaw-block being in general flush with the sides of the slide-bar. D indicates the clamp-screw, provided with a broad shoulder, *s*, designed to abut against the edges of the bars *h h'* on the side opposite the shank *d''*, the screw passing into the slot *b*, and engaging in a threaded perforation in the hook end *d'* of the jaw-block. When the screw is tightened it serves to hold the jaw to the location in the slot at which it has been adjusted. Each jaw-block is faced on its inner side with a leather or rubber pad usually, a recess, *z*, having a transverse shoulder, *z'*, being formed in the inner face of the block, so that the pad may be secured with a single rivet. When a nut or other article is clamped between the jaws they hold their places not alone by virtue of the clamp-screws, but also by clamping or biting the bar B at three points—that is to say, against the under side of the bar *h'*, and against the upper and under sides of the bar *h*.

It will be observed that the biting-points of the jaw-block are upon parts rigidly connected therewith, so that the jaw cannot give way unless by fracture.

What I claim as new, and desire to secure by Letters Patent, is—

In a brace-wrench, the laterally-slotted transverse bar B, in connection with the lateral clamp-screws and the jaw-blocks, having biting shoulders *e* and hook projections *d*, the latter entering the slots of the bar B, and perforated to engage with said clamp-screws, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

LYMAN B. PRINDLE.

Witnesses:

ELI D. WEEKS,
WM. C. PRINDLE.