H. Huston,

Awl Holder,

No. 39,815, Patented Sept. 8, 1863.

Fig. 3

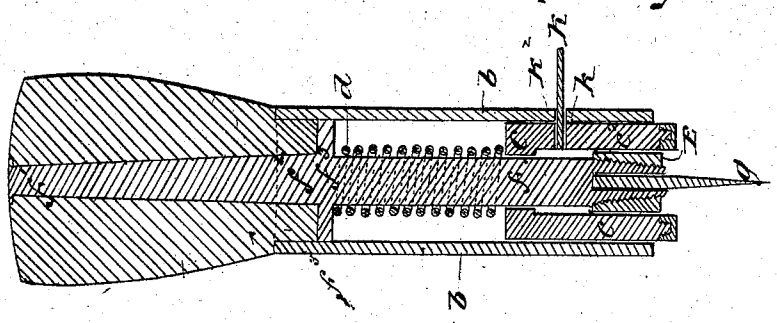


Fig. 1.

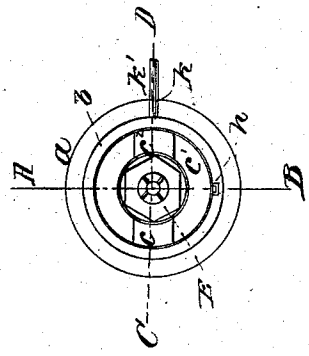
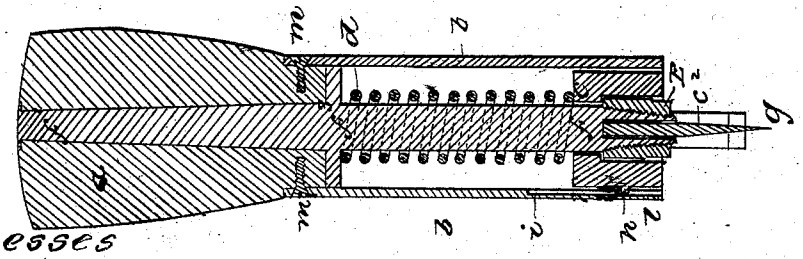


Fig. 2.



Witnesses

A. L. Reed

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UNITED STATES PATENT OFFICE.

HUGH HUSTON, OF CANNONSBURG, PENNSYLVANIA.

IMPROVED PEGGING AWL HOLDER AND EXTRACTOR.

Specification forming part of Letters Patent No. **39,815**, dated September 8, 1863.

To all whom it may concern:

Be it known that I, HUGH HUSTON, of Cannonsburg, in the county of Washington and State of Pennsylvania, have invented a new, useful, and Improved Awl-Holder and Awl-Extractor; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, and to the letters of reference marked thereon.

The nature of my invention consists in providing as simple as possible an instrument or means by which a pegging-awl shall be extracted from leather, so that the awl and haft are thrown up in such position as to leave the hole just made by the awl in the leather in full view. This is done, as set forth below, by means of an extractor, with its extensions, as operated by a spring.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 is an end view. Fig. 2 is a sectional view of Fig. 1 through A and B. Fig. 3 is a sectional view of Fig. 1 through C and D.

Fig. 1 is an end view as seen when looking at the lower end, and indicates the outlines of the several parts of my pegging-awl holder and awl-extractor, the drawings being of full size, and the letters of reference indicate the same parts in the figures. The first circle, Fig. 1, is the outline of the haft or handle *a*. The next two circles are the outlines of the out and in side surfaces of the ferrule *b*. The space between the third and fourth circles is occupied by the awl-extractor *c*—the squares within the same space *c'*.

c^2 indicates extensions to or of the extractor, as seen more fully in Figs. 2 and 3. Above the extractor, in the same space, is the spiral spring *d*, as seen in Figs. 2 and 3. The space between the six-sided figure and the central or smallest circle indicates a screw-nut, *e*, on the lower end of the awl-holder. (More readily seen in Figs. 2 and 3.) The space included in the smallest circle indicates the lower end of the awl-holder *f*, and is divided into four parts or points by being sawed or cut at right angles as far down as may be necessary to admit of putting in and taking out easily the awl *g*.

Fig. 2 is a sectional view of Fig. 1 through A and B. *a* is the haft or handle.

The awl-holder *f* has its shank f' f^2 made square in the part passing through the haft to prevent the haft from turning when in use, and is fastened at the top or upper end, f', by a screw-nut sunk into the haft.

At f^3 is a flange or ring surrounding the holder, and brazed or welded to it, so as to admit of a blow or stroke on the haft of a hammer sufficient to cause the awl to penetrate the leather, and not be driven down on the shank or split. The flange f^3 is also designed as a base or shoulder for the upper end of the spring *a* to work against in its expansions to lift up the awl-holder *f*. The lower end of the holder is tapering, Figs. 2 and 3, with a screw cut on it to receive the six-sided screw-nut E, which in the inside is tapering so as to fit on the end of the holder designed to compress the four points or parts of the awl-holder *f* closely together around the awl *g*, so as to hold it in a firm position when in use. The awl *g* is square or flat at its upper end, so as to have a good bearing in its place against the holder.

The awl-extractor *c* is cylindrical in shape, having two extensions, c' c^2, designed to admit of seeing the position of the point of the awl before striking the blow, to cause it to penetrate the leather, and also to see the hole just made for the peg. Through the center is a hole, made to fit closely on the holder for about one-third of its way, yet move easily. Then the diameter of the hole is enlarged sufficiently to admit of an unobstructed movement past the screw-nut E, as the extractor is pressed by the spring *d* to extract the awl *g*, and also to admit of the removal of the screw-nut E whenever desired to change the awl. On opposite sides of the extractor are extensions, Fig. 3, c' c^2, with small screws cut on their ends, on which to screw leather or any elastic material designed to prevent injury to the leather by the pressure on it in extracting the awl. On the outside of the extractor, Fig. 2, is a pin, *h*, at right angles with the extensions, made to work in the slot *i* in the ferrule designed to hold the extractor in position when in use. At right angles with the pin *h*, and in line with one of the extensions c^2, is a pin-hole, K, passing through one side of the extractor just above the commencement of the enlarged internal diameter designed to admit the pin K', which passes through the

ferrule K^2, to hold the extractor firmly in position and to compress the spring, Fig. 3, so as to allow of the removal of the awl by unscrewing the nut E. The ferrule *b* is attached to the lower end of the haft at *m m'* by small screws, and at right angles with the pin hole K^2 is a slot, *i*, on the inside, in depth one-half of the thickness of the shell of the ferule, and of sufficient length to admit of the full extension of the spring *d*.

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

1. The awl-extractor *c*, its extensions *c' c²*, its pin *h*, and its mode of fastening K K' K^2, as and for purposes specified.

2. The flange f^3, as and for purposes specified.

3. The ferrule, with its slot *i* and pin-hole K^2, as and for purposes specified.

4. The awl-holder *f f' f²*, the awl *g*, the spiral spring *d*, in combination, as and for purposes specified.

In testimony whereof I have hereunto signed my name before two subscribing witnesses.

HUGH HUSTON.

Witnesses:

ALEXANDER MCBRIDE,

JOHN GRAYSON, Jr.