

No. 643,285.

Patented Feb. 13, 1900.

R. DOUGLAS.
TOOL FASTENING.

(Application filed Nov. 11, 1899.)

(No Model.)

Fig. 1.

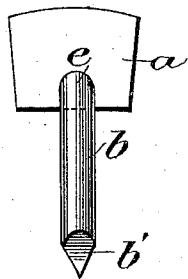


Fig. 2.

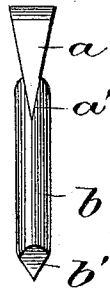
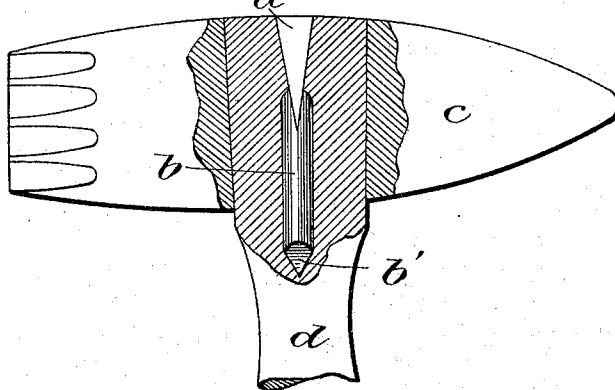


Fig. 3.



Witnesses:

Clarence Williams
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UNITED STATES PATENT OFFICE.

ROBERT DOUGLAS, OF NEW BEDFORD, MASSACHUSETTS, ASSIGNOR OF
ONE-HALF TO ERNEST A. JENNINGS, OF SAME PLACE.

TOOL-FASTENING.

SPECIFICATION forming part of Letters Patent No. 643,285, dated February 13, 1900.

Application filed November 11, 1899. Serial No. 736,717. (No model.)

To all whom it may concern:

Be it known that I, ROBERT DOUGLAS, a citizen of the United States of America, residing at New Bedford, in the county of Bristol and State of Massachusetts, have invented a certain new and useful Improvement in Wedges for Securing Hammers or other Tools having Similar Eyes on their Handles, of which the following is a specification.

It is well known and a constant source of annoyance to mechanics that the heads of hammers, axes, and other similar tools become loosened from their handles when in use from the wedges which secure them on said handles working loose.

The object of my invention is to provide a wedge for a tool-handle which will retain its position in the tool-handle when once in place, and thus obviate the annoyance and danger from the tool flying off the handle when in use.

To this end my invention consists in providing a wedge of metal having a nail-like projection extending from its edge in line with the direction in which the wedge is to be driven, adapted to be driven into the end of the handle of a tool within the eye.

The accompanying drawings illustrate my invention, in which—

Figure 1 is a front view, Fig. 2 is a side view, and Fig. 3 is a sectional view, of a hammer and portion of handle, showing my improved wedge as it appears when in position to secure said handle within the hammer.

Similar letters refer to similar parts in the several views.

The letter *a* indicates the wedge, having the nail-like projection *b* extending from its edge *a'* in line with the direction in which the wedge is to be driven, preferably provided with a point *b'*.

The device is made of metal, preferably cast of malleable iron.

In applying the wedge to its intended use a hole somewhat smaller than the projection *b* is bored in the center of the tool-handle, in which the point of the projection *b* is inserted and the wedge driven to place, as shown in Fig. 3. The wood of the handle closes slightly behind the shoulder *c*, and this, with the well-known tenacity with which a cylindrical body driven into wood is held, prevents the wedge from working loose, and thus the tool remains firmly fixed to its handle.

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

A tool-handle wedge, consisting of the metallic wedge *a*, provided with a nail-like projection *b*, extending from the edge of said wedge, in a line with the direction in which the wedge is to be driven, and having the laterally-projecting shoulders *c*, substantially as shown, and for the purpose described.

ROBERT DOUGLAS.

Witnesses:

EDWARD P. HASKELL,
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