B. M. LEGG.

KNIVES FOR BOXING HUBS.

No. 173,651. Patented Feb. 15, 1876.

Fig. 1.

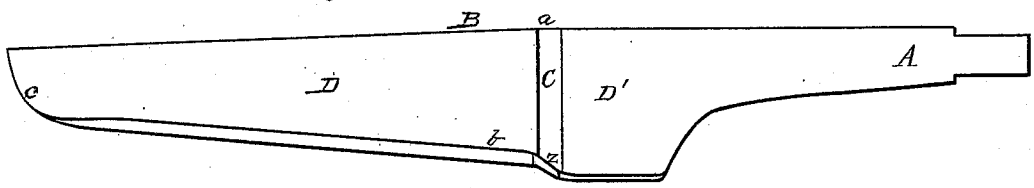


Fig. 2.

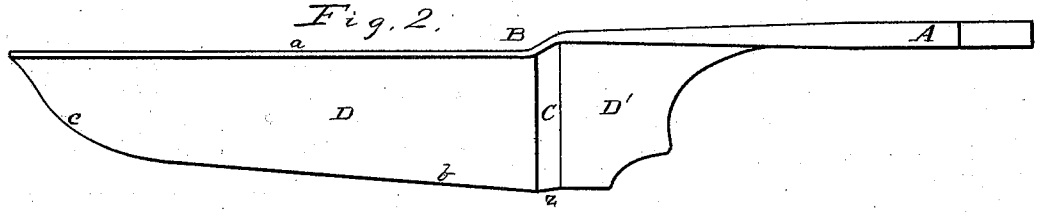
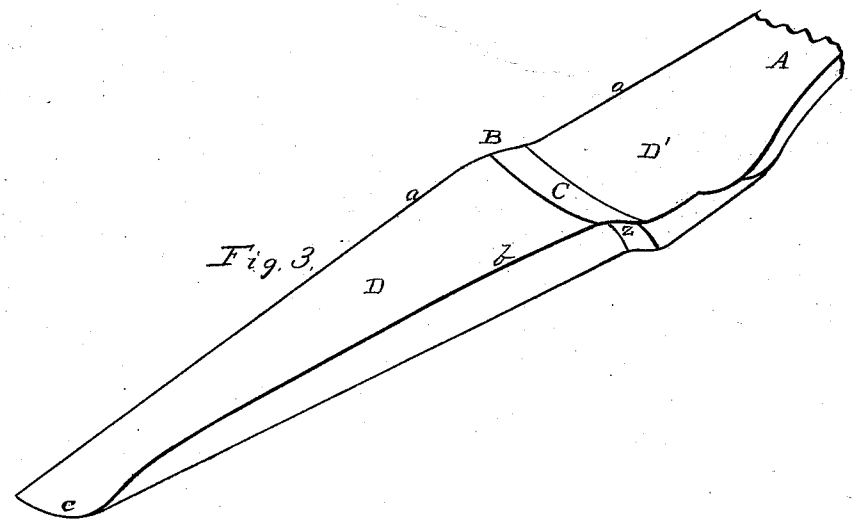


Fig. 3.



WITNESSES

Mary S. Utley.

E. H. Bates

INVENTOR

Benjamin M. Legg,

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ATTORNEYS

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UNITED STATES PATENT OFFICE.

BENJAMIN M. LEGG, OF BEMENT, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO ABRAHAM HAYS, OF SAME PLACE.

IMPROVEMENT IN KNIVES FOR BOXING HUBS.

Specification forming part of Letters Patent No. **173,651**, dated February 15, 1876; application filed December 4, 1875.

To all whom it may concern:

Be it known that I, BENJAMIN M. LEGG, of Bement, in the county of Piatt and State of Illinois, have invented a new and valuable Improvement in Knife for Boxing Hubs; 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.

Figures 1 and 2 of the drawings are representations of side views of my knife, and Fig. 3 is a perspective view thereof.

This invention has relation to means for cutting the box-holes of wheel-hubs true, and thereby preparing them to receive the boxes; and it consists in the novel form and construction of the hub-boring knife hereinafter set forth.

The bore of a hub is cut tapering and with the grain, and an expansion of the bore is usually formed at the larger end to receive the shoulder of the box at the neck.

The tool which I have invented is designed to cut out such a bore with facility. It consists of a strong shank or tang, and a long tapering conically concave blade, having a transverse bend or shoulder near its heel, an oblique curved point, and a cutting-edge extending along said point, and following the edge of the blade around the bend to the heel.

In the accompanying drawings, the letter A designates the shank or tang. B represents the blade, having, as usually constructed, a strong back edge, *a*, extending in line or nearly in line with the shank, and a cutting-edge, *b*, which extends from heel to point and toward the back, giving a general tapering form to the blade. Longitudinally the elements of the blade are straight, except at the bend or shoulder, and transversely they are circular, so that the general form of the blade is conical.

C designates the transverse bend or shoulder. This extends entirely across the blade near the heel, obliquely outward, and connects the main blade D with the expanded neck-blade D′. At the point the cutting-edge *b* is curved more abruptly toward the back *a*, as indicated at *c*, to form the entering portion of the tool.

This instrument is readily manufactured, and is designed to serve an efficient purpose in turning out the interior box-chamber. The longitudinal cutting-edge works with facility, splitting out the interior fibers, while the bend-edge *z* forms the interior shoulder of the neck. This portion of the edge, although cutting more across the fiber of the wood, being near the handle or power end of the instrument, is readily operated. Sometimes a socket may be preferred to a tang at the power end.

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

The hub-boxing knife herein described, consisting of a shank, a tapering conically concave blade, provided with a transverse shoulder near its heel, an oblique curved point, and a cutting-edge extending along said point, and following the edge of the blade around to the heel, substantially as described.

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

BENJAMIN M. LEGG.

Witnesses:
THOMAS DUNN,
his
ALEXANDER × PURVIS.
mark.