

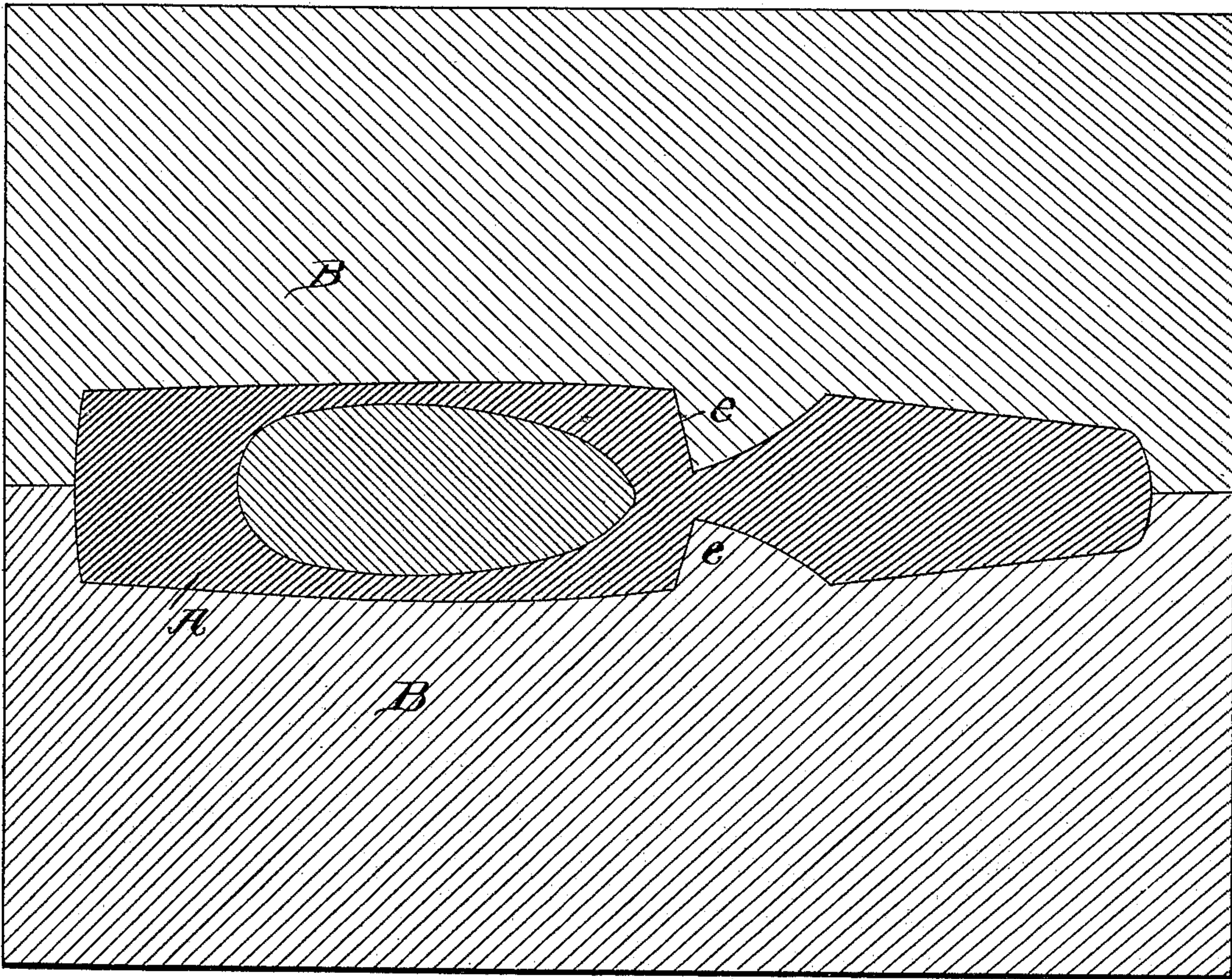
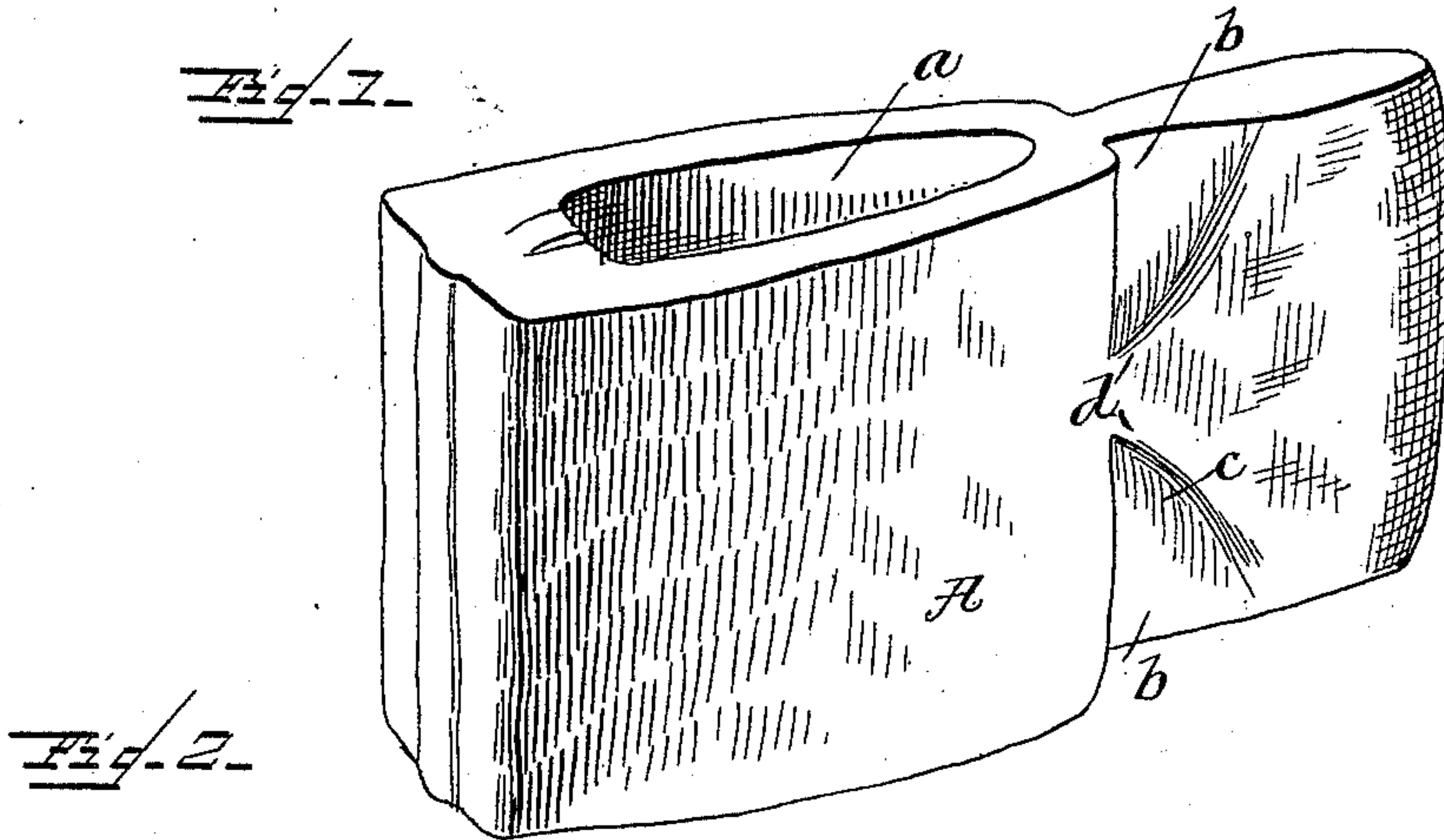
(No Model.)

W. C. KELLY.

AX POLL.

No. 397,368.

Patented Feb. 5, 1889.



WITNESSES

Edwin I. Yewell,
E. Everett Ellis

INVENTOR.

William C. Kelly.
By

Ymer W. Intire Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM C. KELLY, OF LOUISVILLE, KENTUCKY, ASSIGNOR TO THE KELLY
AXE MANUFACTURING COMPANY, OF SAME PLACE.

AX-POLL.

SPECIFICATION forming part of Letters Patent No. 397,368, dated February 5, 1889.

Application filed June 27, 1888. Serial No. 278,374. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. KELLY, a citizen of the United States, residing at Louisville, Kentucky, have invented new and useful Improvements in Ax-Polls, of which the following is a specification.

This invention relates to certain new and useful improvements in ax-polls; and it consists, substantially, in such features thereof as will hereinafter be more particularly described, and pointed out in the claims.

On the 29th day of September, 1885, Letters Patent of the United States No. 372,275 were granted me for improvements in axes, and wherein the novel feature of the invention consists in making the blade of the ax of a practically uniform thickness and tapering from a point at or near its center toward the edges, the lines of taper diverging from said point toward the points of intersection of the back and front edges of the blade with the cutting-edge thereof.

In the manufacture of the ax covered by the Letters Patent referred to it has been necessary heretofore to first make a plain poll and afterward effect the tapering of the blade by some subsequent operation or process—such, for instance, as grinding or friction-wheels, grinding-stones, or the like—and this subsequent operation is both laborious and expensive, requiring, in many instances, employment by the workman of specially-designed implements or machinery.

The object of the present invention is to better enable the manufacture of said ax by dispensing with the need of any second or subsequent operation, such as above referred to, and to so construct the poll as to enable the same to be manufactured and shipped in large quantities ready for the insertion of the steel or bit, all as will more fully appear hereinafter when taken in connection with the accompanying drawings, wherein—

Figure 1 represents in perspective a view of my improved ax-poll, and Fig. 2 is a longitudinal sectional view of both the ax-poll and the pair of dies employed for shaping or forming the same.

In the practice of my invention the metal or iron may be first heated and the eye punched

or rolled therethrough, or otherwise formed, for the reception of the helve, and after this the metal is again heated in the manner usual in the manufacture of ax-polls, and I then place the mandrel in the eye so rolled or punched. The same is then placed in a drop-machine between a pair of dies shaped as illustrated in section in the accompanying drawings, which dies form the subject-matter of an application filed of even date herewith. By subjecting the material to the action of the dies the poll is given the desired shape, and is thereby fitted or made ready for the insertion of the steel or bit, and when finished to make an ax possessing the feature or characteristic hereinbefore mentioned.

Reference being had to the accompanying drawings by the letters marked thereon, A represents an ax-poll constructed in accordance with my invention, the same having the usual eye, *a*, for the reception of the helve or handle. The said poll is slightly tapering in longitudinal section, and in each side thereof are two recesses or depressions, *b b*, slightly beveled inwardly, as at *c*, and diverging from the point *d* (at which they may or may not meet or intersect) toward or in the direction of the corners of the back and front edges.

The recesses or depressions *b b* in each side of the poll are formed by two correspondingly-shaped projections, *e e*, on the depressed faces of the dies B B, while the remaining parts of the poll receive shape from the peculiar contour of the cavities or recesses of the dies.

An ax-poll so constructed enables the workman to obtain an ax of the desired shape by simply inserting the steel in the usual manner and drawing out the blade.

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

1. As a new article of manufacture, an ax-poll having in each side thereof two corresponding recesses or depressions slightly beveled inwardly or toward each other and diverging in a taper in the direction of the corners of the thinnest portion of the poll, substantially as described.

2. As a new article of manufacture, an ax-poll

having the eye *a* slightly tapering in direction of its length, the same having in each side thereof two corresponding recesses or depressions slightly beveled inwardly or toward
5 each other and diverging in a taper in the direction of the corners of the thinnest portion of the poll, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM C. KELLY.

Witnesses:

E. EVERETT ELLIS,

CURTIS LAMMOND.