

(No Model.)

W. C. KELLY.

DIE FOR MAKING AX POLLS.

No. 397,369.

Patented Feb. 5, 1889.

Fig. 1.

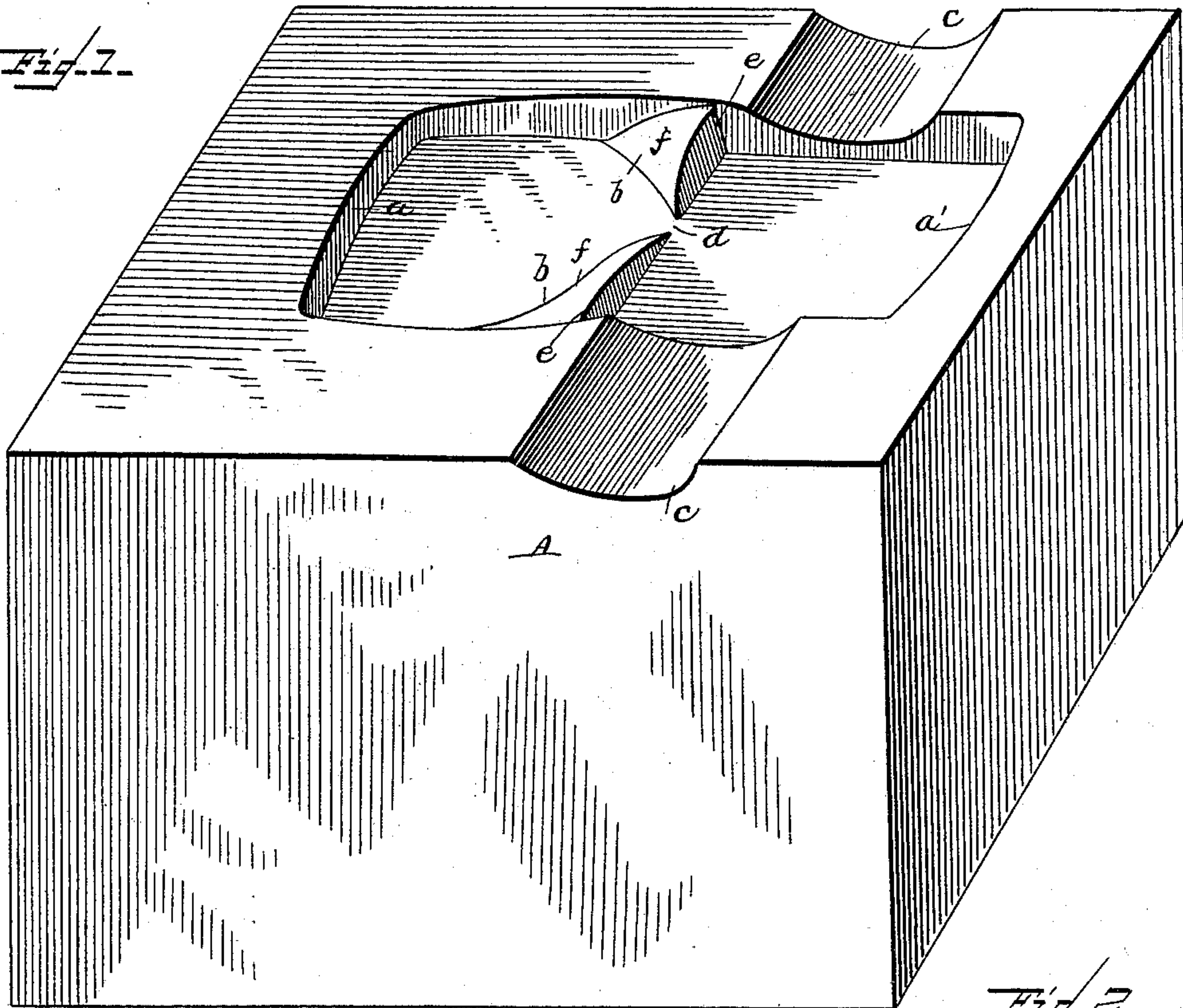


Fig. 2.

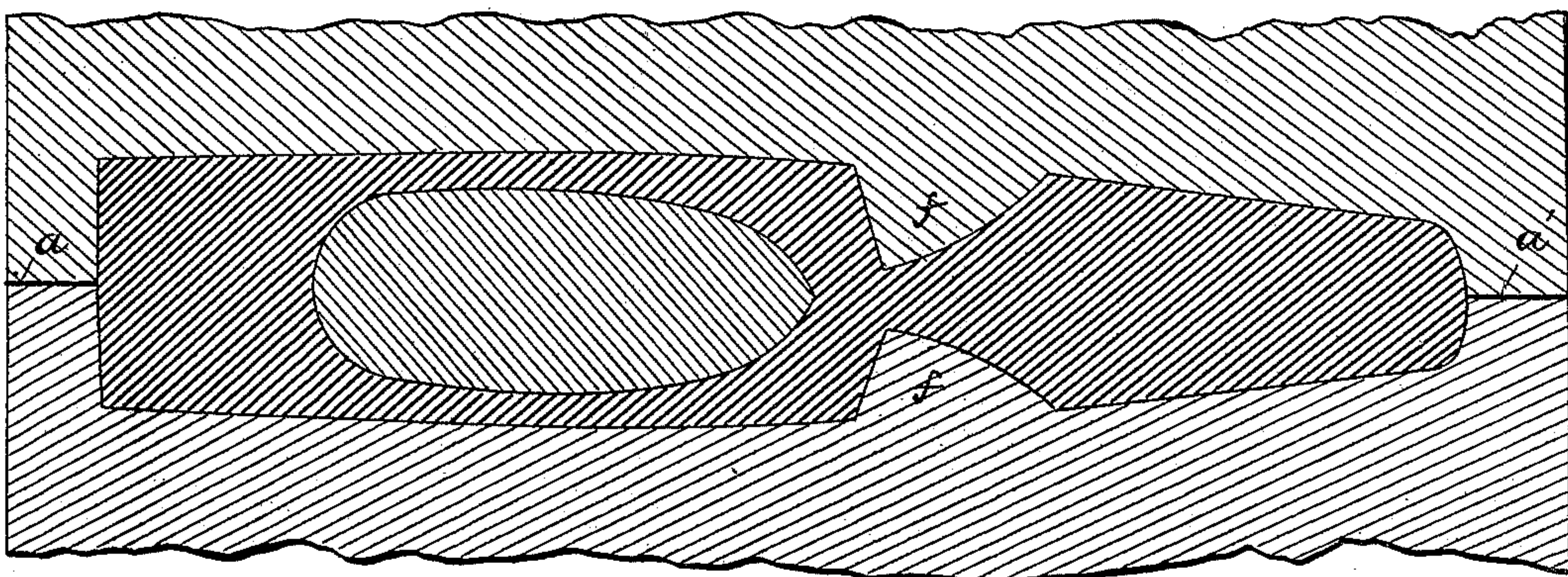
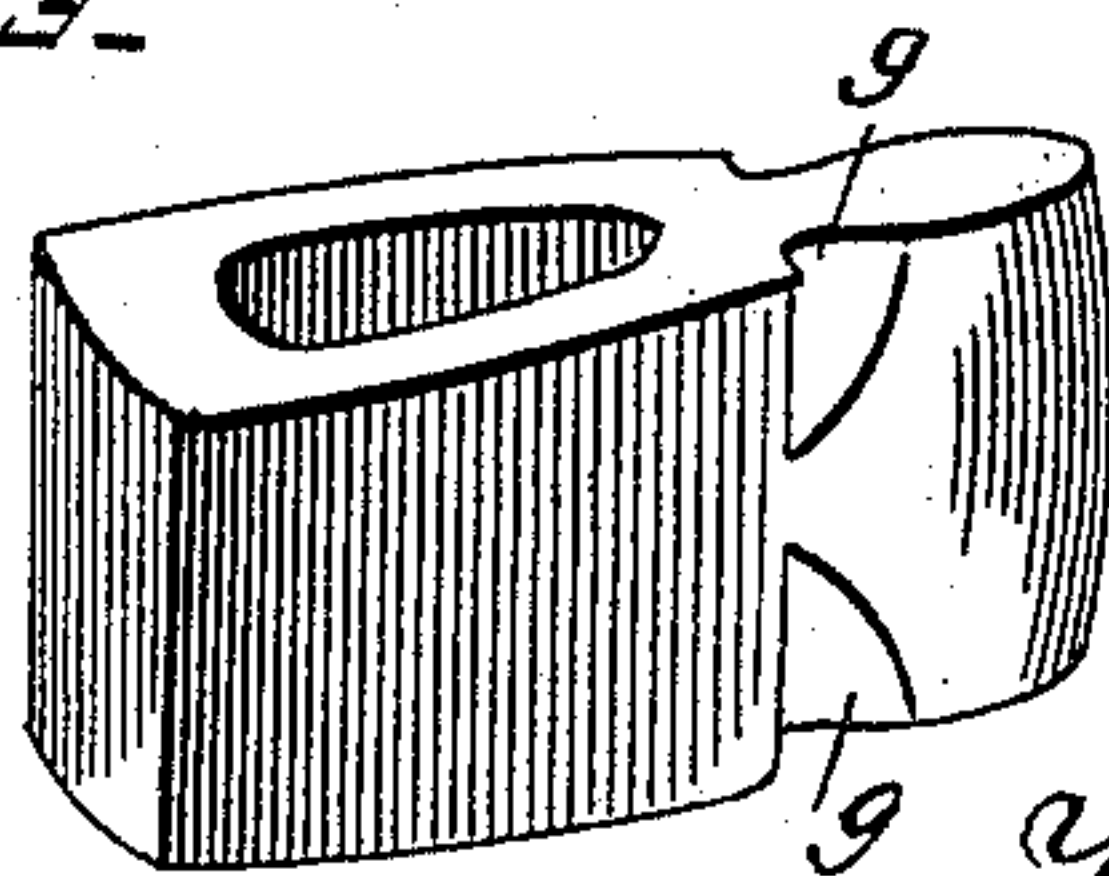


Fig. 3.



WITNESSES,

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By

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# UNITED STATES PATENT OFFICE.

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

## DIE FOR MAKING AX-POLLS.

SPECIFICATION forming part of Letters Patent No. 397,369, dated February 5, 1889.

Application filed June 27, 1888. Serial No. 278,375. (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, Jefferson county, Kentucky, have invented new and useful Improvements in Dies for Making Ax-Polls, of which the following is a specification.

This invention relates to certain new and useful improvements in dies for the manufacture of ax-polls; and it consists, substantially, in the construction thereof, as will hereinafter be more particularly described and claimed.

The object of the invention is to construct a die for producing an ax-poll by which to make an ax such as is described and claimed in Letters Patent No. 372,275, granted to me on the 29th day of September, 1885, the novel feature of which ax consists in making the blade 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.

I have filed of even date herewith an application for patent for the poll produced by the dies of the present invention; hence no claim for the poll is herein made, although the same is illustrated for the purpose of completeness and understanding.

Referring to the accompanying drawings, Figure 1 represents an isometrical perspective view of one of the dies employed. Fig. 2 represents the two dies, together with the poll between them, each being in longitudinal section. Fig. 3 is a view in perspective of the poll formed by the dies.

Reference being had to the drawings by the letters marked thereon, A represents the die, the same being hollowed out or recessed between the points marked *a* and *a'*, and but for the presence of correspondingly-shaped and oppositely-arranged projections *b b* the bottom or base of such recess or cavity would present a gradually curved or dished surface

between such points *a* and *a'*, the said curvature being designed to give general shape to the poll. In line with the eye of the poll I also make or form in the top of the die the cavities *c c* for the mandrel, by which the poll is manipulated between the dies by the workman.

The projections *b b* are each the counterpart of the other in shape, and are formed at opposite sides of the cavity or recess, preferably, though not essentially, with a dividing-space, *d*. The one face, *e*, of these projections is beveled inward slightly, and is approximately straight vertically; or, instead of being slightly beveled, the same may be straight or in conformity to the curve of the eye of the ax when finished, while the lines bounding their upper faces, *f*, are curved, as shown, and unite or intersect with each other at curvilinear angles. These projections are for producing in the ax-poll correspondingly-shaped depressions or cavities—such as are indicated by the letters *g g*—while, due to the shape of the cavity or recess of the dies, the main body of the poll receives its general contour or shape.

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

1. A die for making ax-polls, having in its face a cavity or recess and formed with the projections *b b*, substantially as described.

2. A die for making ax-polls, having in its face the cavity slightly curved between the points *a a'* and formed with the projections *b b*, the boundary lines of which intersect each other in curvilinear angles, 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.