

(No Model.)

A. REESE.
Manufacture of Hoes.

No. 232,301.

Patented Sept. 14, 1880.

Fig. 2.

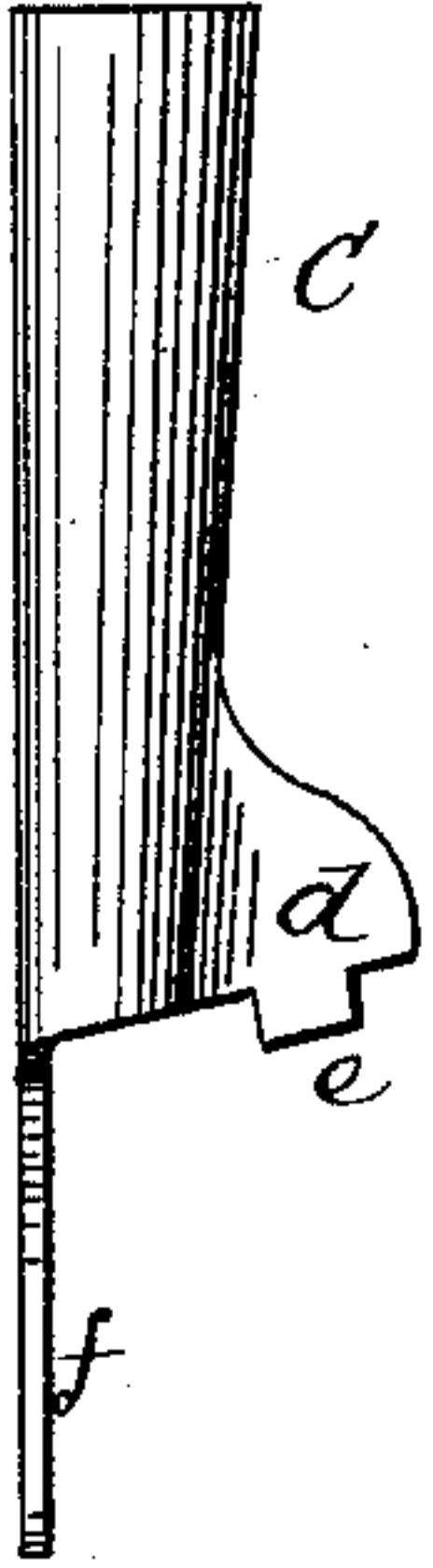


Fig. 1.

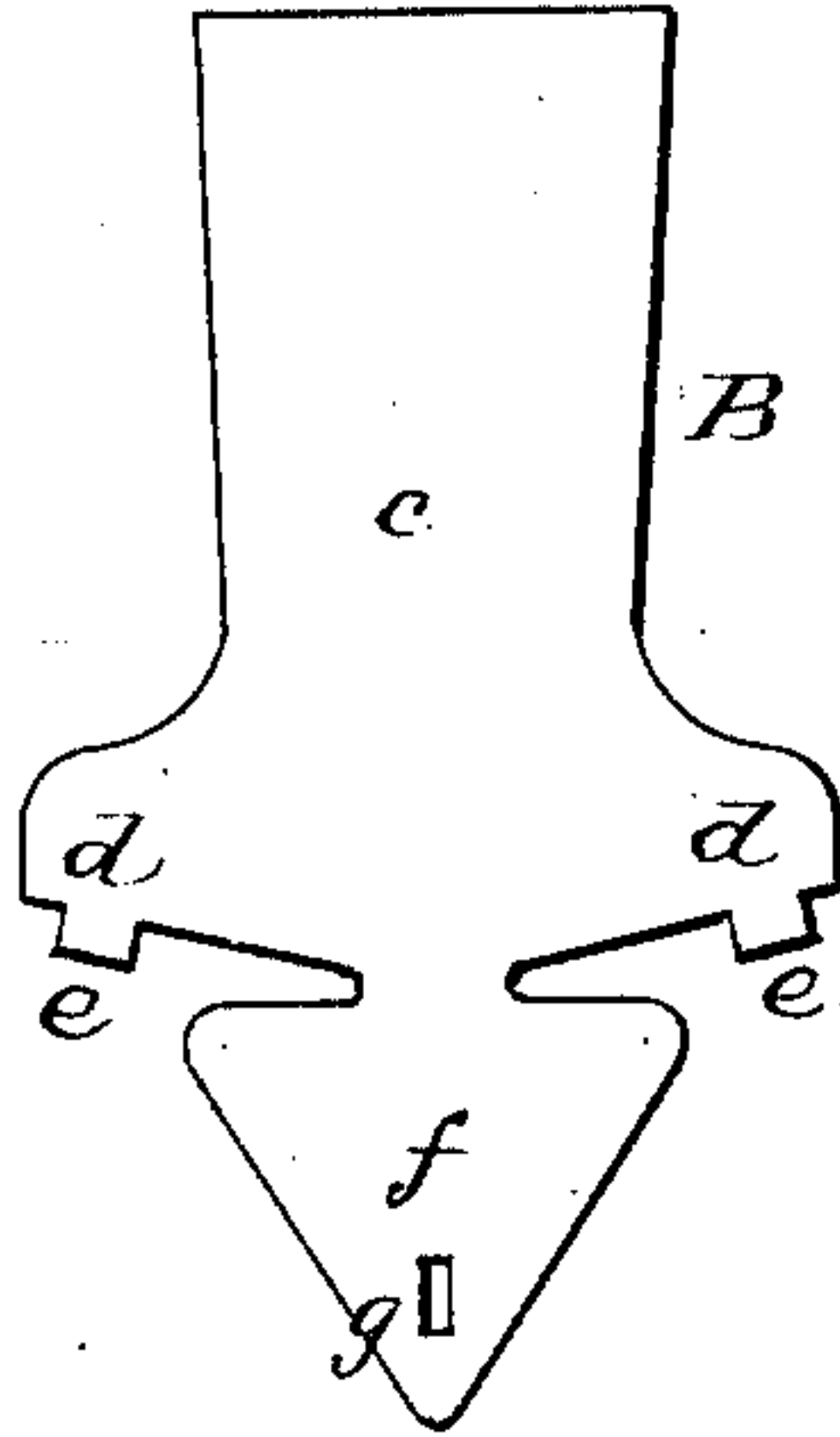


Fig. 3.

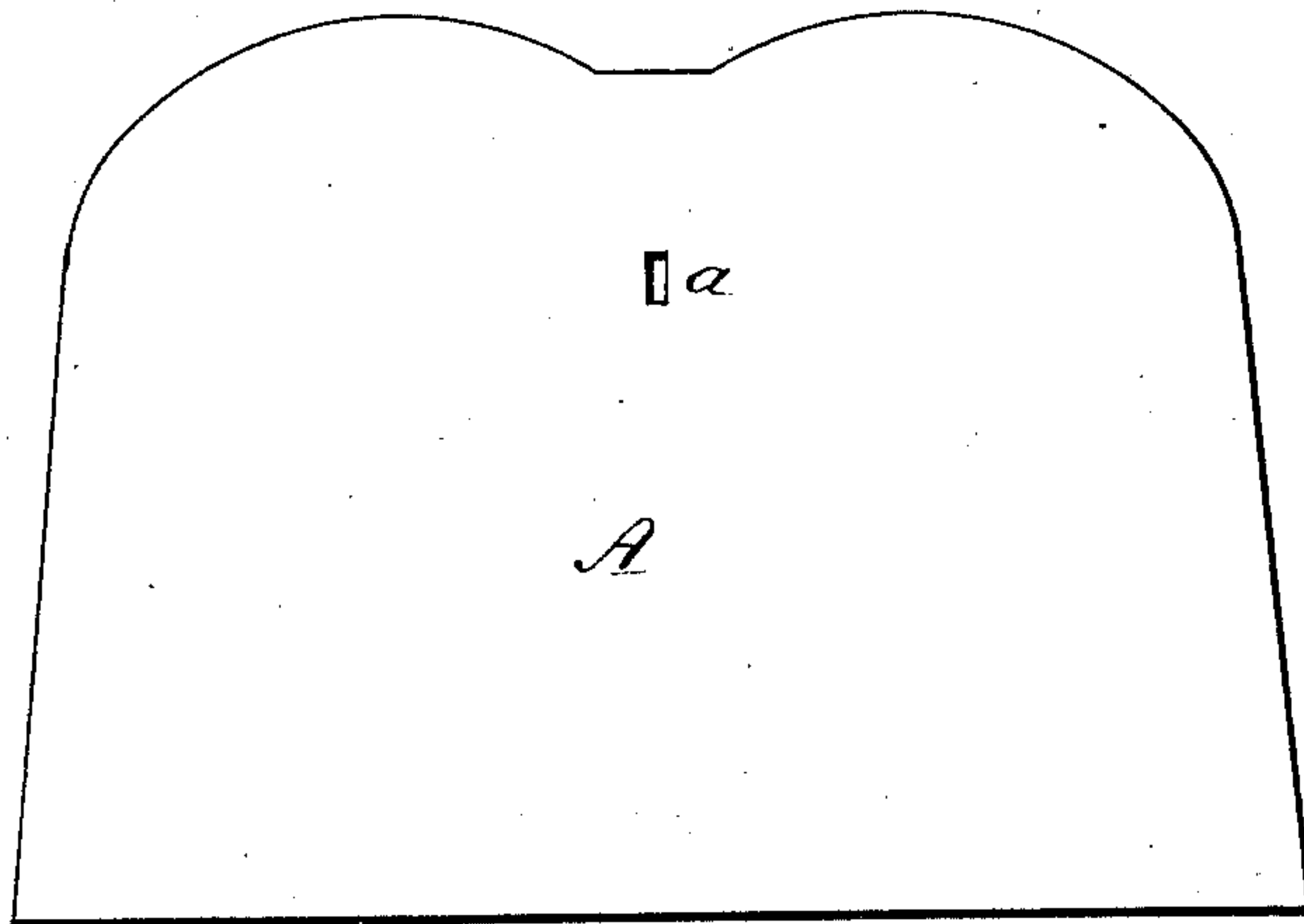
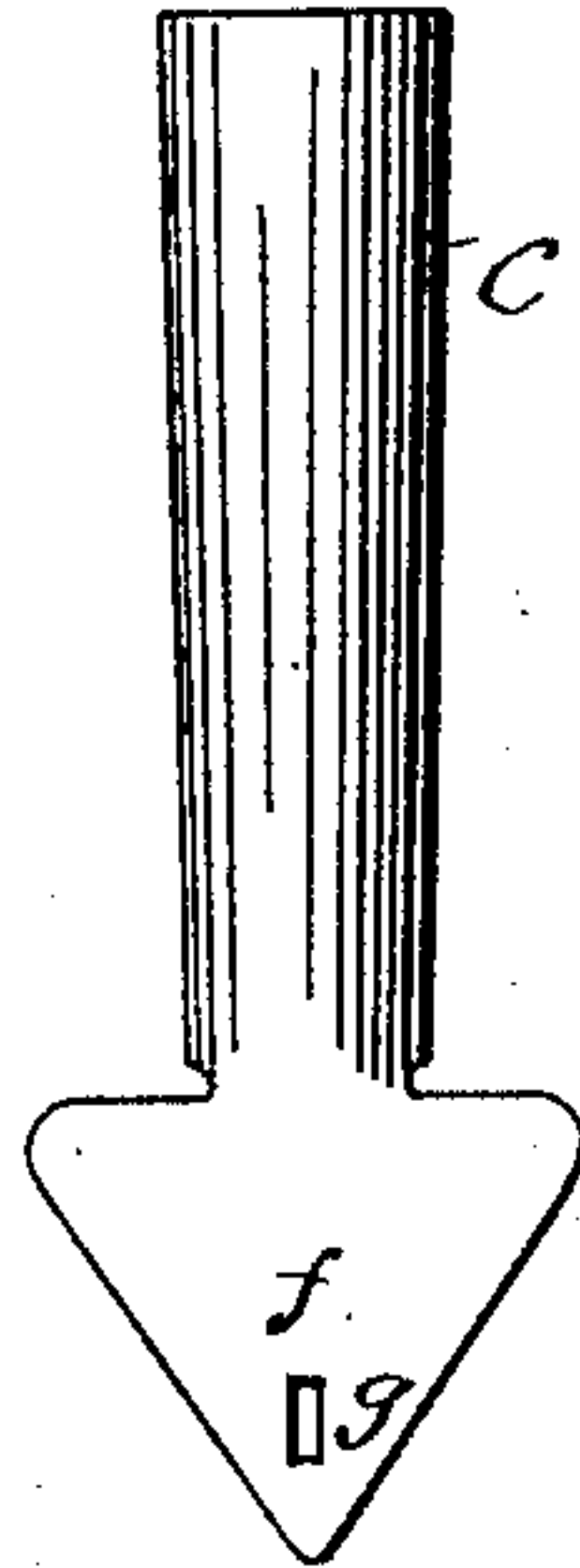
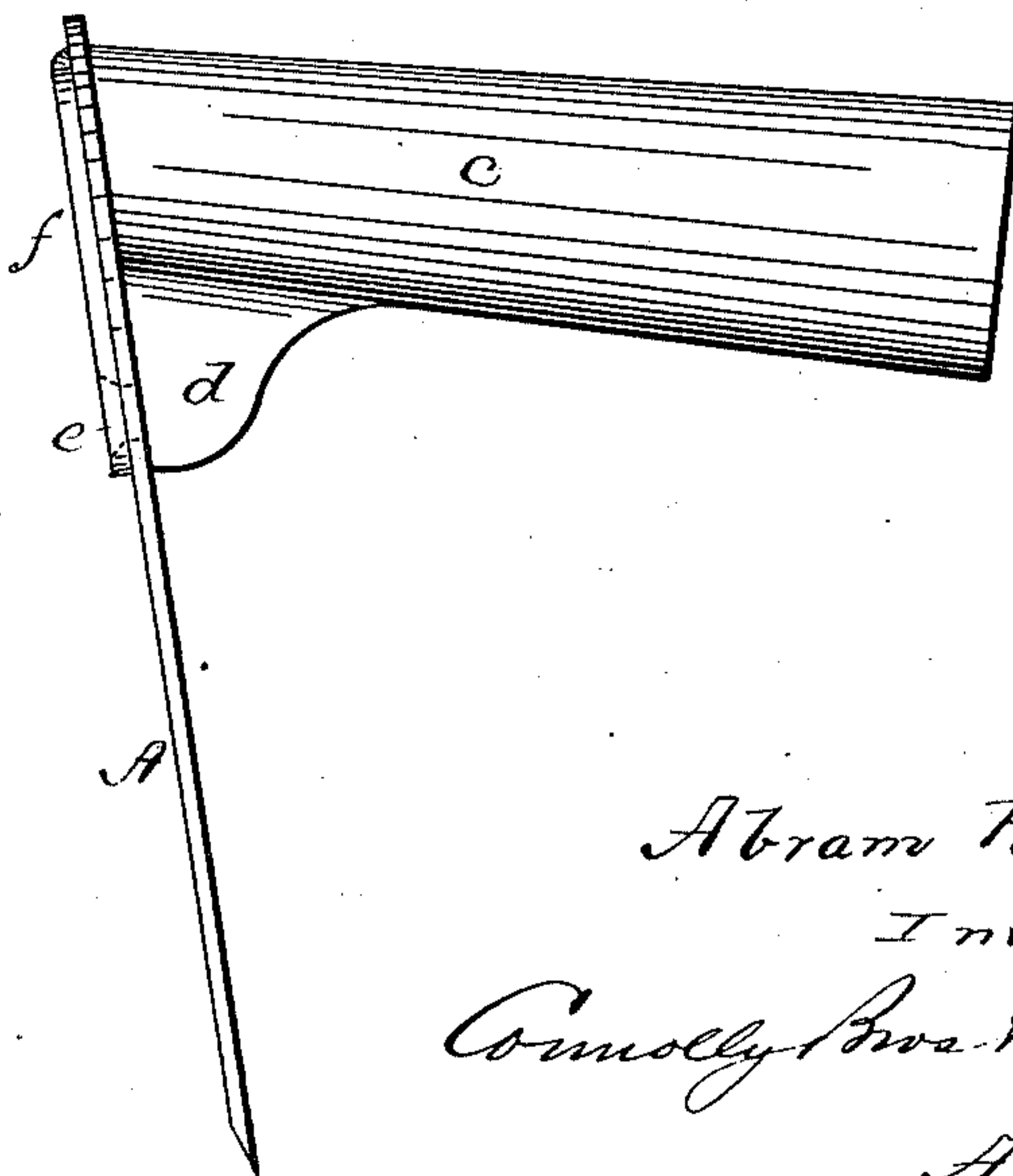


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

ABRAM REESE, OF PITTSBURG, PENNSYLVANIA.

MANUFACTURE OF HOES.

SPECIFICATION forming part of Letters Patent No. 232,301, dated September 14, 1880.

Application filed May 21, 1880. (No model.)

To all whom it may concern:

Be it known that I, ABRAM REESE, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain Improvements in the Manufacture of Hoes; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 shows the blanks. Figs. 2 and 3 are views of the socket after bending, and Fig. 4 shows the finished hoe.

This invention relates to the manufacture of sheet-metal hoes, and is an improvement on the invention described in my Patent No. 219,765, relating to the same subject-matter.

In carrying out the details described in my said patent I must bend the sheet-metal blank at the neck, so that the socket and blade shall take the proper angle. If I bend the blank cold, the surface is liable to crack or the metal to become strained or weak. If I bend it hot, the heating will be apt to warp the blade out of true, causing much trouble in straightening, besides taking out or reducing the temper of the blade.

My present invention provides for the manufacture of a hoe of similar general constructive principle, but avoiding the above difficulties.

It consists in cutting a blank in two pieces—the blade and socket portions—the same being shaped and connected substantially as herein-after described.

Fig. 1 shows the forms of the two blanks I require. The blade A has the rivet-hole *a*, as in my former patent, but has no socket portion integral with itself. The socket-blank B has the socket portion proper, *c*, with the wings or lugs *d* and projections *e*, as in my former patent. In addition to these original features I leave a triangular flap, *f*, on the end which

is to be next the blade, and in the flap *f* is cut a hole, *g*, corresponding in size and position with the hole *a* in the blade. These blanks are formed into a hoe as follows: The socket-blank B is curved up to form the round socket till the wings *d* meet side by side, as in Fig. 2; but flap *f* is left flat, as in same figure and Fig. 3. The socket is now placed to the blade, with the projections *e* passing through hole *a* and lugs *d* bearing firmly against the rear of the blade A. Then the flap *f* is folded down on the front of the blade until it lies flat thereon, and projections *e* pass through hole *g* in the flap. The projections *e* are then headed up on the outside of the flap, binding the blade firmly, as shown in Fig. 4.

By this construction I avoid heating and warping the blade. The socket may be heated or may be bent cold. It may be of iron and the blade of steel, thus cheapening the cost. The shape of the flap is immaterial; but I prefer that shown.

With such a socket I can make a hoe with a hammered steel blade for very heavy work. I claim as my invention—

The described improvement in the manufacture of hoes of sheet metal, by cutting two blanks of substantially the form shown in Fig. 1, bending the socket-blank B to form the socket, passing its projections *e* through the hole in the blade, then folding down the flap of the socket till the projections *e* pass through its hole *g*, and finally heading the projections up, substantially as described.

In testimony whereof I have hereto set my hand.

ABRAM REESE.

Witnesses:

T. J. MCTIGHE,

THOS. A. CONNOLLY.