

(No Model.)

H. C. SZINK.
Die for Making Draw Heads for Cars.

No. 232,215.

Patented Sept. 14, 1880.

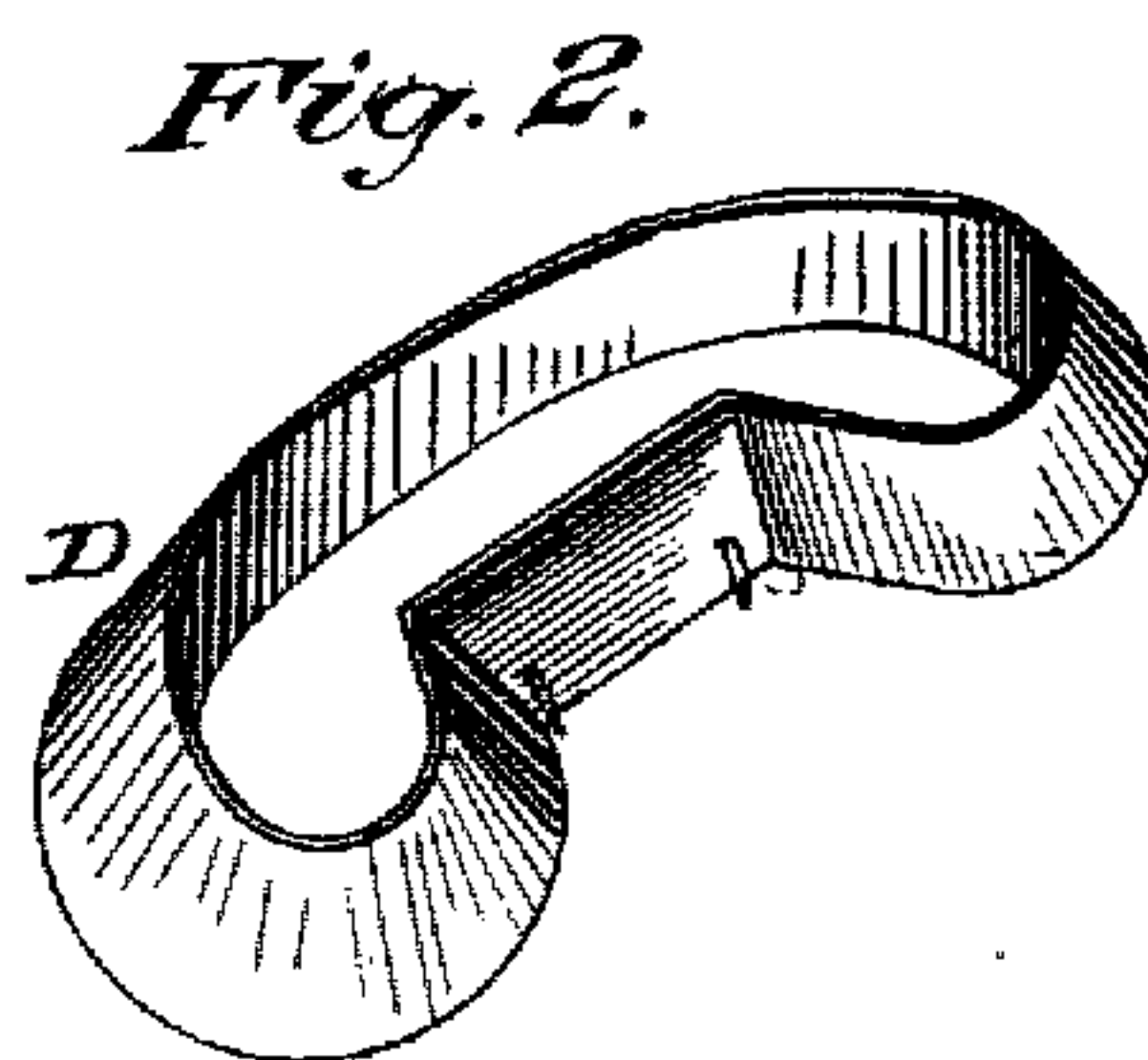
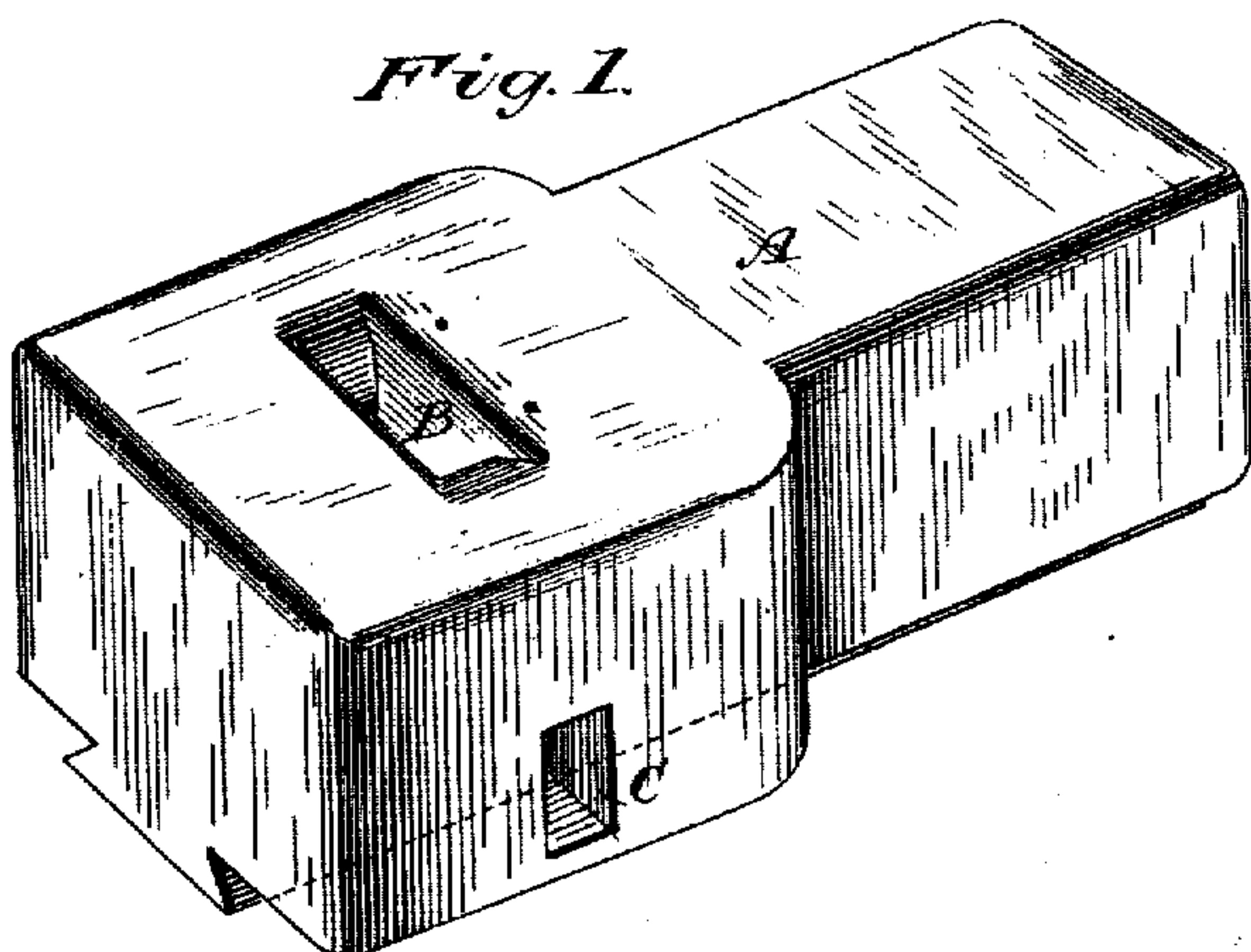


Fig. 3.

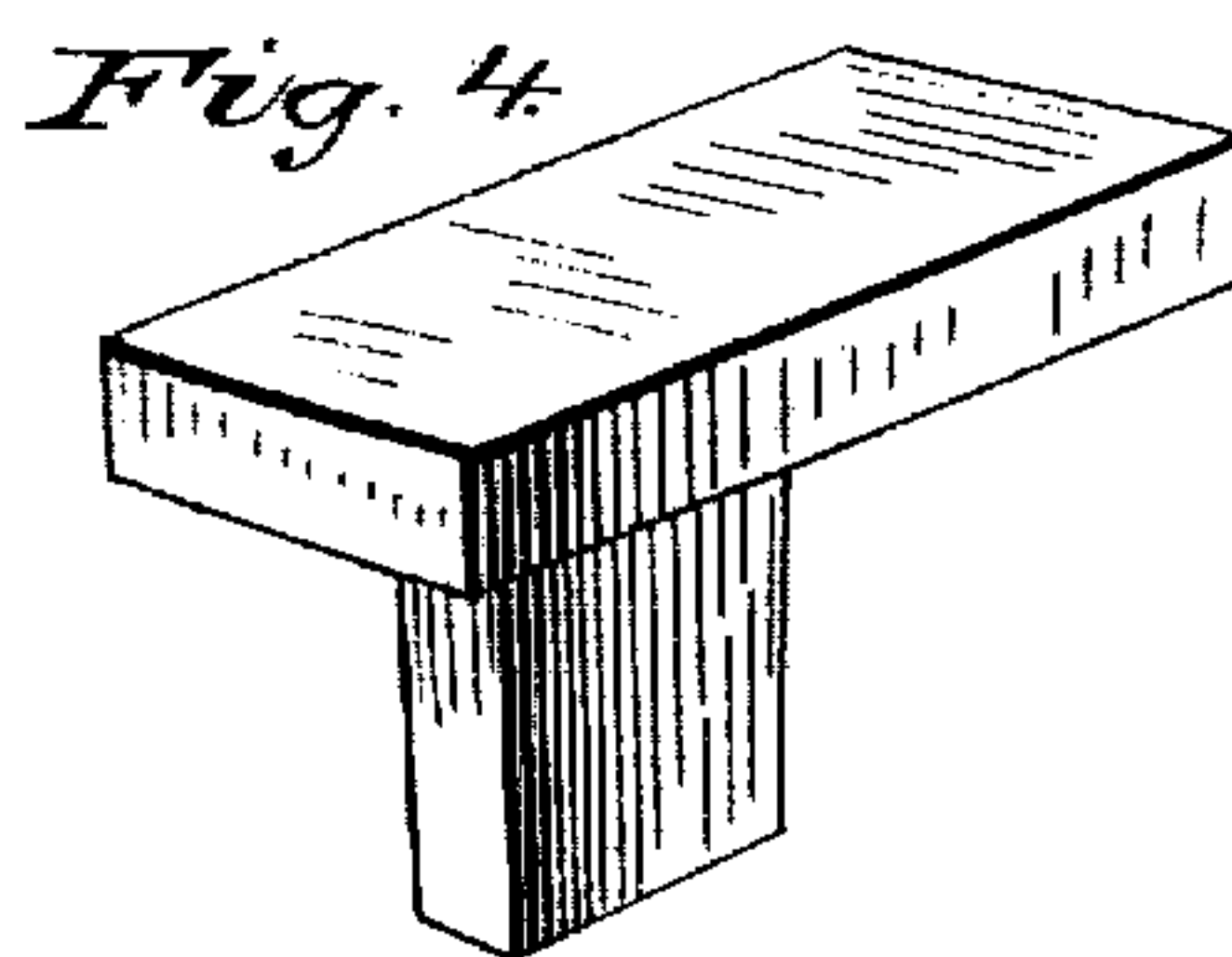
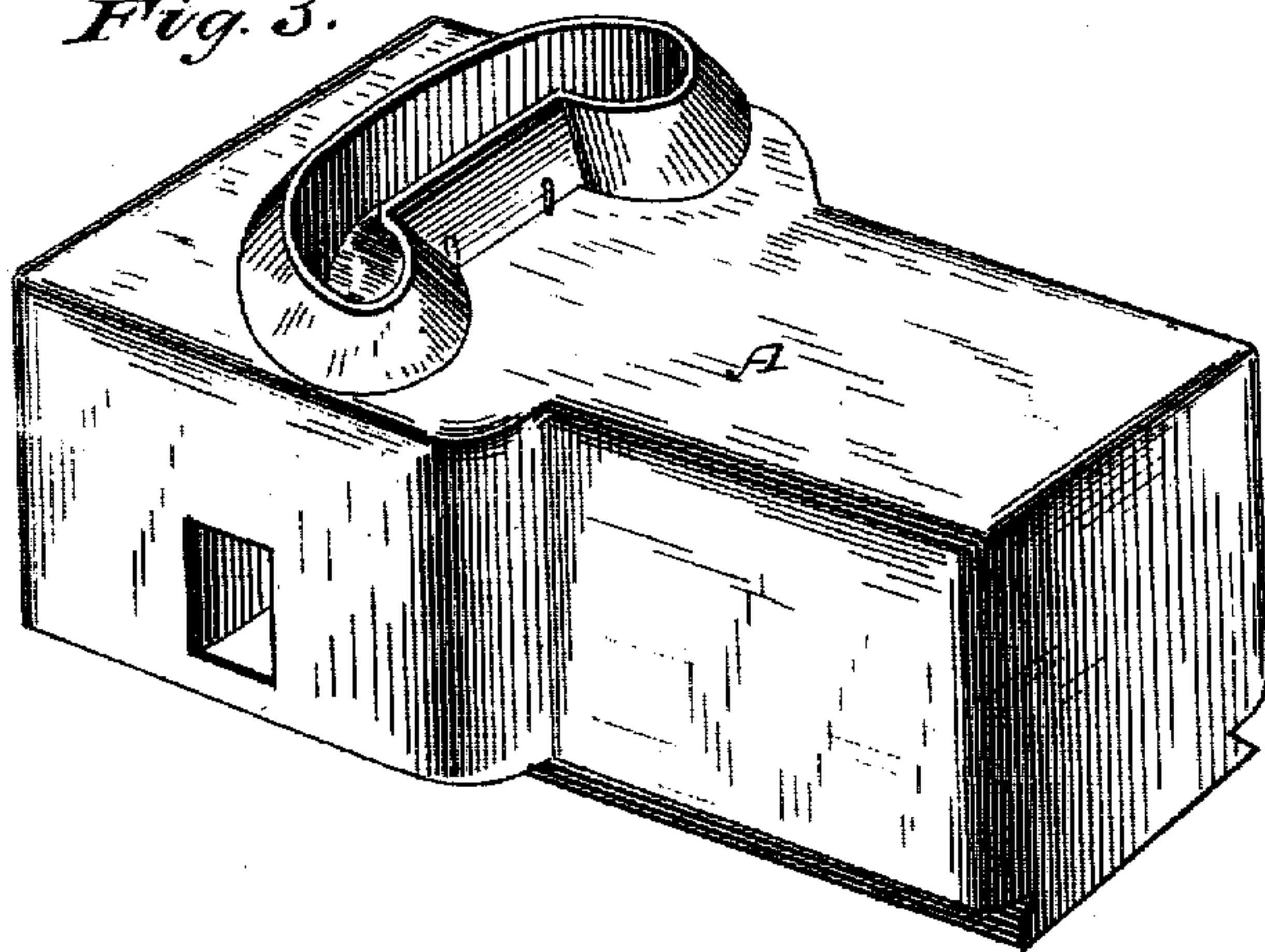
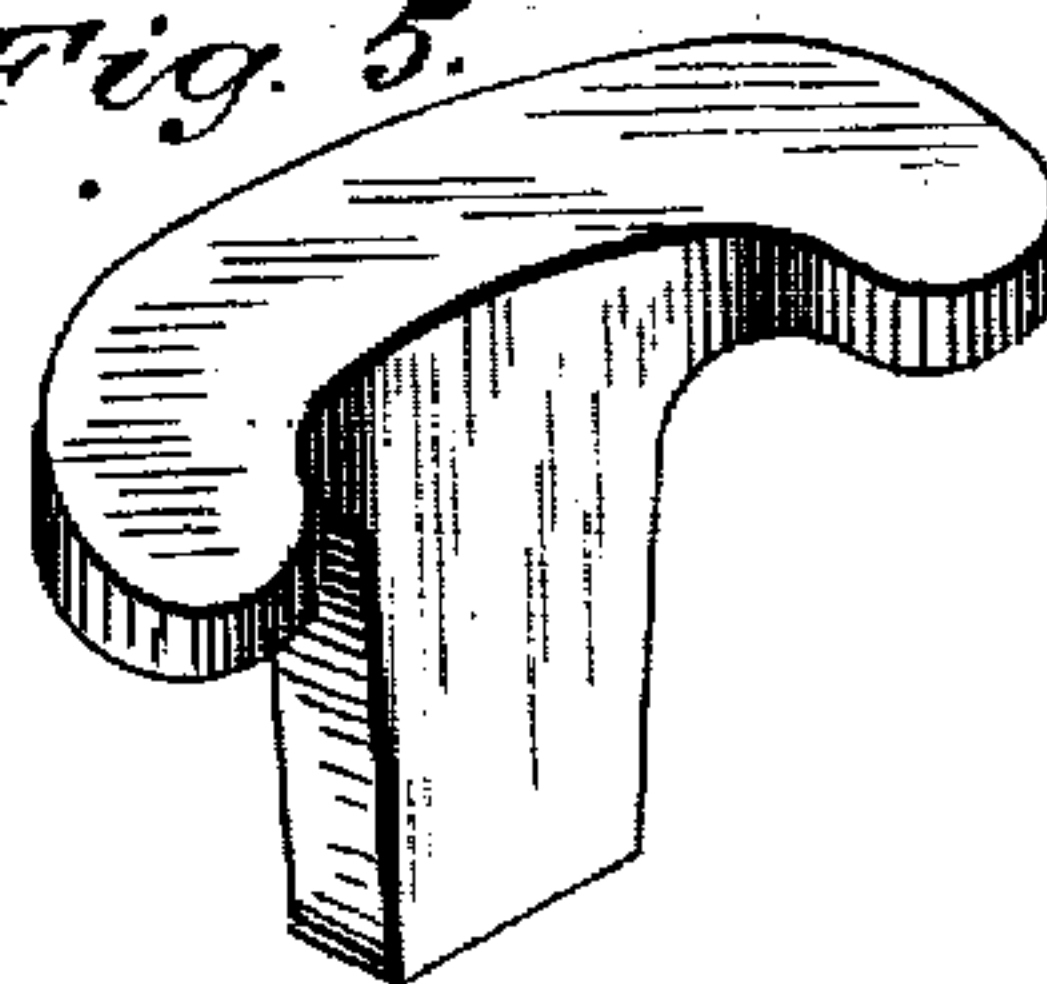


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY C. SZINK, OF ALTOONA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
OF HIS RIGHT TO LEWIS R. POFFENBERGER, OF SAME PLACE.

DIE FOR MAKING DRAW-HEADS FOR CARS.

SPECIFICATION forming part of Letters Patent No. 232,215, dated September 14, 1880.

Application filed May 1, 1880. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. SZINK, of Altoona, in the county of Blair and State of Pennsylvania, have invented certain new and useful Improvements in Dies for Making Draw-Heads for Railroad-Cars; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view of the die. Fig. 2 is a perspective view of the cutter. Fig. 3 is a view of the die with the cutter in position ready for operation. Fig. 4 is a perspective view of the blank to be operated upon. Fig. 5 shows the same in its finished state.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to dies for making draw-heads for railroad-cars; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

Heretofore draw-heads have been welded into the required shape—a laborious and comparatively expensive operation.

By my improvement the draw-head is made in two sections of equal size and shape, which, by being welded together, constitute the complete draw-head.

In the drawings hereto annexed, A represents the body of my improved die, which is arranged under a drop-hammer of ordinary construction. The said body is provided with a vertical recess, B, having beveled or sloping sides, said recess being adapted to contain the shank of the draw-head which is to be formed.

In operation, a rough blank is prepared, of substantially the shape shown in Fig. 4 of the drawings. The small end of said blank is inserted into recess B, and it is then exposed to the action of the drop-hammer. By this a portion of the metal is forced into recess B, which thus properly shapes the draw-head shank. The balance is flattened upon the top

of the die, the hammering being continued until the metal is reduced to the proper thickness. The blank is then removed from the die, which may be done by driving a wedge into a slot or recess, C, intersecting the recess B, thus loosening and releasing the blank, which may then be easily removed.

The next step in the operation is to adjust the cutter D, which is a steel die having vertical inner and beveled or sloping outer edges, converging at the top in a sharp edge. From the shape of the die, which is clearly shown in the drawings, Fig. 2, it will be seen that it is adapted to cut the flattened portion of the blank to a shape approximating that of one-half of the mouth or front rim of a draw-head. After adjusting the die or cutter, which may be provided with pins or studs to enter recesses or depressions in the face of the die A, the blank is replaced, as shown in Fig. 3, and again subjected to the action of the drop-hammer, by which it is forced down against the cutter, which removes the superfluous metal and trims the blank to its proper shape, as shown in Fig. 5. It is then ready to be finally removed from the die and welded to another similar blank to form the complete draw-head.

This invention is exceedingly simple, easily operated without skilled labor, and greatly reduces the cost of draw-heads.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

As an improvement in apparatus for manufacturing draw-heads, the die A, having recess B, with beveled or sloping sides, in combination with the sharp-edged cutter D, substantially as and for the purpose shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

HENRY C. SZINK.

Witnesses:

W. B. BLAKE,
C. H. MORSE.