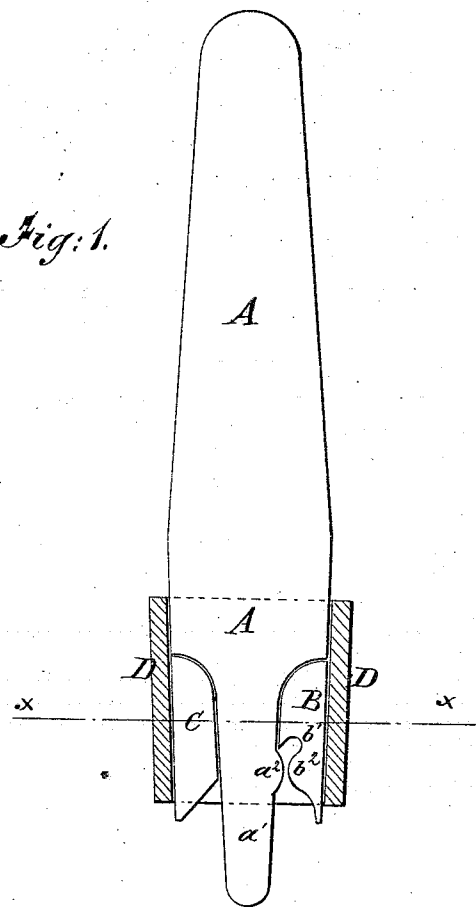


**A. G. ROUSE.**  
**Saw-Tooth Swages.**

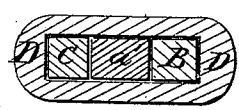
No. 157,225.

Patented Nov. 24, 1874.

*Fig: 1.*



*Fig: 2.*



**WITNESSES:**

*Chas. Nida*  
*A. J. Perry*

**INVENTOR:**

*A. G. Rouse*  
**BY** *Munn & Co*  
**ATTORNEYS.**

# UNITED STATES PATENT OFFICE.

ALONZO G. ROUSE, OF JACKSONVILLE, FLORIDA.

## IMPROVEMENT IN SAW-TOOTH SWAGES.

Specification forming part of Letters Patent No. **157,225**, dated November 24, 1874; application filed October 10, 1874.

*To all whom it may concern:*

Be it known that I, A. G. ROUSE, of Jacksonville, in the county of Duval and State of Florida, have invented a new and useful Improvement in Swage for Saw-Teeth, of which the following is a specification:

Figure 1 is a side view of my improved saw-tooth swage, partly in section to show the construction. Fig. 2 is a cross-section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved swage for saw-teeth which shall be so constructed as to bring the teeth to the required form so perfectly as to require but little finishing with the file; which shall be self-adjusting to the teeth, so as to require very little skill in its use; and which shall be simple in construction, strong, durable, and not liable to get out of order.

The invention consists in the combination of the central projection, having a rounded projection formed upon one of its side edges, the die, having a recess and a rounded projection formed upon its lower inner part, the inclined die, and the band, with the stock, as hereinafter fully described.

A represents the handle or stock of the swage, which is made of steel or other suitable material. The lower or working end of the stock A is recessed upon its side edges to form a slightly-tapering projection,  $a^1$ , upon one of the sides of which is formed a rounded projection,  $a^2$ . The ends or shoulders of the recesses in the side edges of the stock A are curved, as shown in Fig. 1, to form seats for the dies B and C. The inner side of the lower part of the die B has a recess,  $b^1$ , formed in it, and the said inner side, below the said recess, is rounded off to form a rounded projection,  $b^2$ , directly opposite to the rounded projection  $a^2$  of the projection  $a^1$ . The lower end of the other die, C, is inclined toward the central projection  $a^1$ , as shown in Fig. 1. The dies B

C are secured in place in the recesses, at the opposite side edges of the projection  $a^1$ , by a strong band, D, passed around the lower part of the stock A. The stock A is made largest a little above the upper edge of the band D, and tapers in both directions, so that, in using the swage, the tendency will be to drive the band D on more firmly and hold the dies B C more securely.

In using the swage, the tooth of the saw is first inserted in the space between the projections  $a^2$  and  $b^2$ , its edge projecting into the recess  $b^1$ , and one or more blows with a hammer upon the upper end of the stock A will cause the said projections  $a^2$   $b^2$  to form small transverse grooves in the upper and lower sides of the tooth, an eighth of an inch (more or less) from its edge or point, leaving the said point or edge unaffected. The swage is then removed and adjusted to bring the edge of the tooth between the other side of the projection  $a^1$  and the inclined end of the die C; and one or more blows of a hammer upon the end of the stock A will bring the edge of the tooth to the proper form, bringing the corners out fully and squarely, obliterating the grooves formed by the projections  $a^2$   $b^2$ , and finishing the edge or point of the tooth so perfectly as to require very little finishing with the file.

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

The improved saw-tooth swage herein described, consisting of the body or stock A, having a projection,  $a^1$ , rounded projection  $a^2$ , formed upon one of its side edges, the die B, having a recess,  $b^1$ , and a rounded projection,  $b^2$ , formed upon its lower inner part, the inclined die C, and the band D, substantially as herein shown and described.

ALONZO G. ROUSE.

Witnesses:

J. H. H. BOURS,  
A. J. PREVATT.