No. 753,723. PATENTED MAR. 1, 1904.

R. MILLER.

SCISSORS SWAGE.

APPLICATION FILED MAY 1, 1903.

NO MODEL.

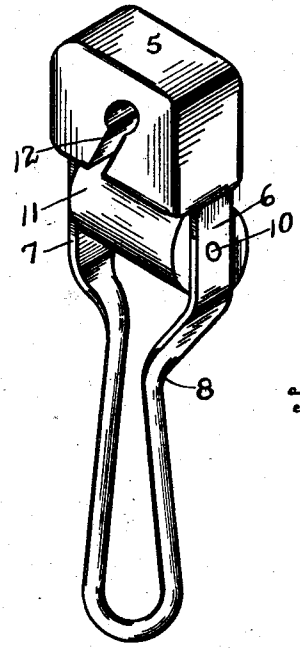

Fig. 1.

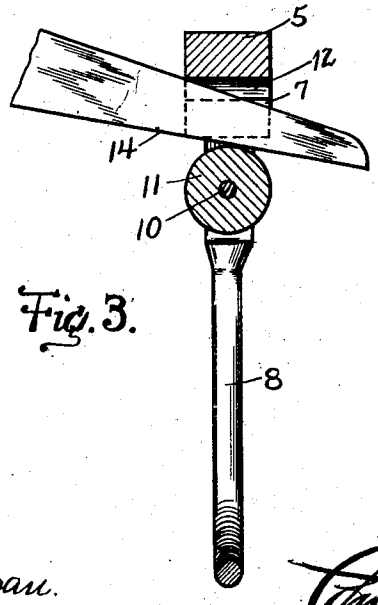

Fig. 3.

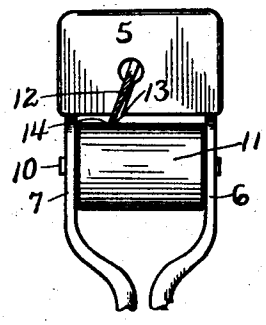

Fig. 2.

Witnesses
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No. 753,723. Patented March 1, 1904.

UNITED STATES PATENT OFFICE.

ROBERT MILLER, OF REEDBRAKE, ALABAMA.

SCISSORS-SWAGE.

SPECIFICATION forming part of Letters Patent No. 753,723, dated March 1, 1904.

Application filed May 1, 1903. Serial No. 155,183. (No model.)

To all whom it may concern:

Be it known that I, ROBERT MILLER, a citizen of the United States, residing at Reedbrake, in the county of Marshall, State of Alabama, have invented certain new and useful Improvements in Scissors-Swages; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to implements or tools for swaging scissors-blades to set up or shape the cutting edge of the blade; and it has for its object to provide a cheap and simple article with which the blade may be readily swaged, so that the blade will be swaged to the same degree, and the scissors thus easily and quickly put into cutting condition.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a perspective view of the tool. Fig. 2 is a side elevation of the swage, showing the blade of a pair of scissors in a position of swaging, the handle of the device being broken away. Fig. 3 is a vertical section showing the application of a scissors-blade in the process of swaging.

Referring now to the drawings, the present tool comprises a guide-block 5 of substantially rectangular form and in which are embedded the upper ends of a yoke-shaped frame including the upper parallel side portions 6 and 7 and the lower oval portion 8, which latter forms a handle which may be grasped to operate the swage. In the sides 6 and 7 of the frame is mounted the transverse shaft 10, which carries a cylindrical roller 11, which is spaced slightly from the adjacent lower face of the block 5, and in the block and opening through the lower face thereof is a guide-slot 12, the side faces of the lower portion of which are parallel and are at an acute angle to the axis of the roller, while the upper or inner end of the slot is broadened.

In the use of this swage the scissors-blade is passed through the slot 12 to its full extent with the flat face thereof resting against the flat face of the slot, so that the bevel 13 of the blade rests against the roller, the cutting edge 14 of the blade being pressed down closely, so that it lies in the angle between the face of the roller and the downward continuation of the flat side of the slot. After the blade has been inserted in the slot, as illustrated in Fig. 3, the handle of the swage is swung upwardly, so that the portion of the blade next to the handle of the scissors will be forced against the roller, while the opposite end portion of the upper end of the blade will be forced against the inner end of the slot in the guide-block. When suitable pressure has been applied between the roller and the beveled edge of the blade, the blade is drawn gradually rearwardly from the slot in the guide-block, at which time the roller is rotated so that the beveled face or edge of the blade is swaged, so that an efficient cutting edge is produced. The operation is continued a sufficient number of times to insure proper swaging. The object of this swaging, as of course will be understood, is to give the two blades of the scissors the same angle of cutting edge, so that they will bear the same relation to each other when in operation.

It will be understood that in practice modifications of the specific construction shown may be made and that any suitable materials and proportions may be used for the various parts without departing from the spirit of the invention.

What is claimed is—

1. A scissors-swage comprising a frame, a guide-block carried by the frame and having a guide-slot therein, and a roller mounted in the frame with its face at an angle to the direction of extension of the guide-slot.

2. A scissors-swage comprising a yoke-frame, a guide-block mounted upon the ends of the yoke-frame, said block having a guide-slot in its end between the sides of the frame, and a roller mounted in the frame adjacent to the slotted end of the block, said slot extending away from the roller at an acute angle to the face thereof.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT MILLER.

Witnesses:
J. A. JONES,
H. L. MILLER.