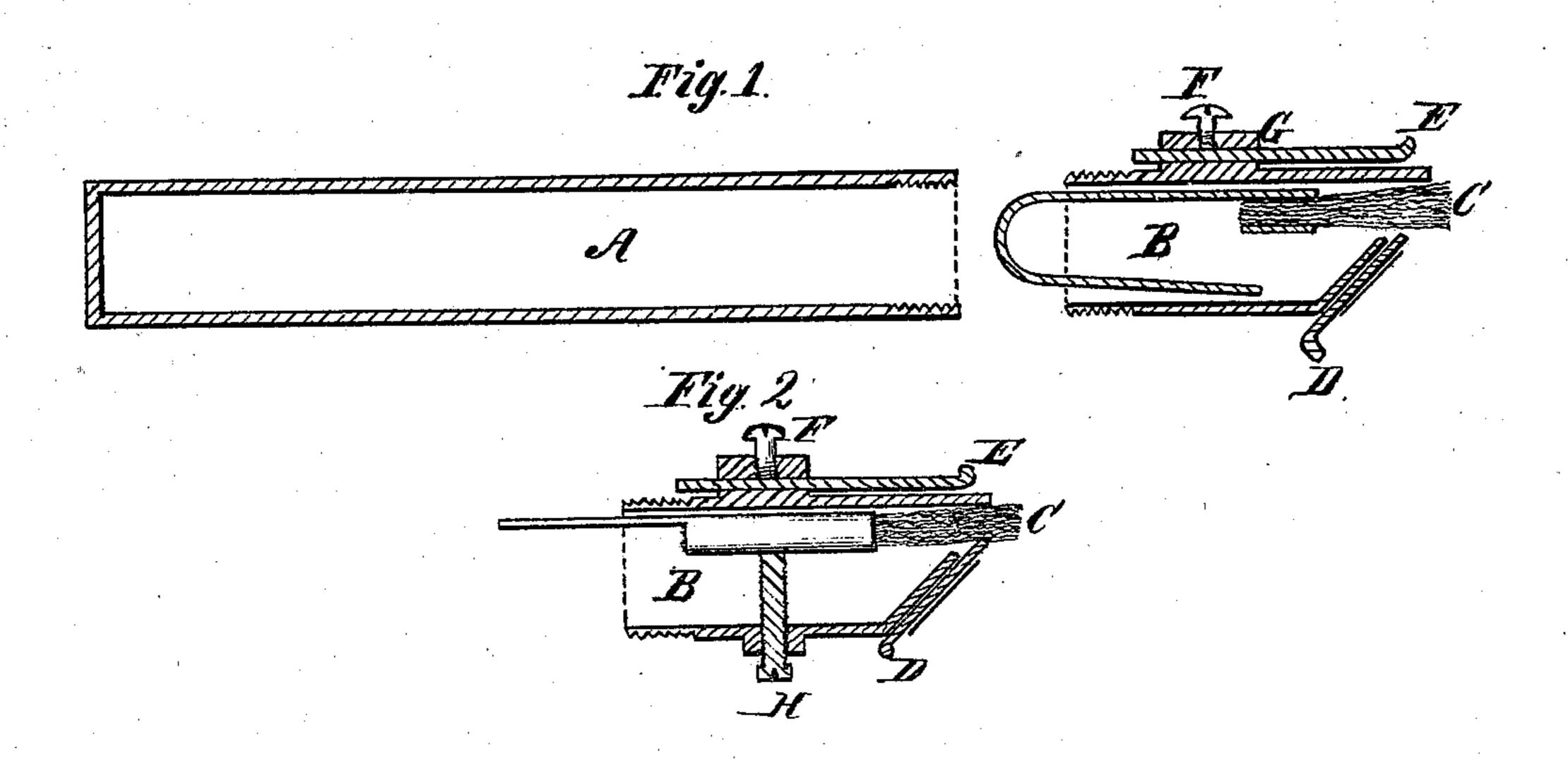
## B. C. FROBISHER.

IMPLEMENTS FOR STRIPING THE SOLES OF BOOTS AND SHOES.

No. 173,456.

Patented Feb. 15, 1876.



Witnesses.

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## UNITED STATES PATENT OFFICE.

BENJAMIN C. FROBISHER, OF BROCKTON, MASSACHUSETTS.

IMPROVEMENT IN IMPLEMENTS FOR STRIPING THE SOLES OF BOOTS AND SHOES.

Specification forming part of Letters Patent No. 173,456, dated February 15, 1876; application filed May 19, 1875.

To all whom it may concern:

Be it known that I, Benjamin C. Frobisher, of the town of Brockton, county of Plymouth and State of Massachusetts, have invented an Implement for Striping the Soles of Boots or Shoes, of which the following is a

specification:

It has become the almost universal practice among the manufacturers of boots or shoes to place a black stripe around the edge of the bottom of the sole, which, if well done, greatly improves the appearance of the same. This striping, so far as my knowledge extends, has been done by the workmen with a sponge saturated with the coloring-liquid. To make a true, even stripe with a sponge requires much practice and skill, and a very slow motion. Furthermore, by the use of a sponge for this purpose, the operator is exceedingly liable to touch and smut the edges of the soles and the uppers of the boot or shoe, which, as the liquid contains a very strong acid, is very objectionable.

The object of my invention is to provide a tool or implement with which this striping can be done with great rapidity, giving a true even stripe, and at the same time avoid the possibility of smutting the edges of the soles or the uppers with the coloring-liquid.

In the accompanying drawing, Figure 1 is a full-sized sectional view of my invention, taken on a line longitudinally through the center of

the tool.

The handle is shown detached from the brush-case the better to show the construction

of the implement.

Fig. 2 is a sectional view of the brush-case B, showing a brush with a straight adjusting-stem, adjusted and held in position by a set-screw.

The handle-reservoir or fountain A holds the coloring-liquid. It is made of a tube of brass, or other suitable metal not liable to corrode by contact with the coloring-liquid. One end of the tube is closed. At the other end an internal screw-thread is cut. B represents the brush-case of the tool. It is made round or cylindrical at one end for the screw-thread, by which it is screwed into the handle of the tool or fountain A. The other end is nearly

square, to give appropriate form and position to the brush C, adjusted within the same by means of the spring, as shown in Fig. 1.

The stem of the brush C should be made of such metal as is best suited to resist corrosion. It should be spring-temper, and is bent double to form a spring, by which it is held in its proper position, and as it is adjusted.

For the brush, I think horse-hair the best

adapted to this use.

In Fig. 2 the brush C is shown with a straight stem, adjusted and held in position by means of the set-screw H. The socket and adjusting-stem of the brush C is made of one piece, stamped out of suitable sheet metal, the body being nearly square or quadrangular in form, and having an adjusting-stem of rectangular form, short, straight, flat, and narrow, extending from the middle of one of the sides. The body is bent nearly double longitudinally with the stem, and on each side of the same, to form a socket for the hair. The hair is then adjusted, and the bent sides pressed firmly down upon inclosing and clasping the same with a strong grasp.

The sheet metal used for this purpose should be sufficiently thick and strong to hold the hair securely in its metallic grasp without

further aid of solder or cement.

It will be observed that the short rectangular adjusting stem of the brush socket is neither designed nor used as a handle, but simply to assist in the adjustment of the brush to the case, within which it is always used.

The stems of both brushes, it will be observed, are flat—one the better to form the spring, the other that it may the more easily be adjusted and securely held by means of the

set-screw H.

D is a slide, adjusted to appropriate guides and grooves, and is designed to press against the brush C to spread the same and assist in holding it in position; also, to regulate and control the quantity of liquid passed through the brush. The guide-piece E is adjusted longitudinally through the boss G, through which it slides, and is secured in an appropriate position by the set-screw F. The piece E being set off by means of the boss from the body of the tool, the liquid used and held

within the tool cannot catch and be drawn by the guide over to the side or edge of the sole operated on.

To use this tool, the brush C is first set so as to project through the opening in the case, as desired, and the slide D pressed against the same, spreading the brush so as to fill the opening. When the spring-stem is used, the spring holds the brush in position. With the straight handle the brush is secured by the set-screw H. The fountain is next filled with the coloring-liquid, and the brush-case screwed into it. The guide-piece E is adjusted by means of the set-screw F, so that when pressed against the edge of the sole the brush C may be placed on the surface of the sole, as desired. The boot or shoe to be striped is held sole upward with one hand, the tool being taken in the other, with the guide E downward. The guide is placed against the edge of the sole, with the brush on the surface of the sole; then gently pressing the guide against the edge, and the brush upon the surface, the tool is carried quickly around the shoe or boot, and the brush leaves a true, even stripe.

Having thus described my invention, its construction, object, and manner of use, I claim—

1. In an implement or machine for striping the soles of boots and shoes, the combination of the fountain-handle A, brush C, and slide D, substantially as shown and described.

2. The combination of the fountain-handle A, brush C, and guide E, as shown and de-

scribed.

3. The combination of the fountain-handle A, case B, provided with set-screws F and H, brush C, slide D, and guide E, all substantially as and for the purpose shown and specified.

ly as and for the purpose shown and specified.

4. In a machine for striping the soles of boots and shoes, the brush C, provided with a clamping socket and stem struck up from a piece of sheet metal longitudinally adjustable within the case, by means substantially as shown and described.

BENJ. C. FROBISHER.

Witnesses:

F. L. KING, E. L. KING.