A. E. WHEELER.

Channel-Striper for Boot and Shoe Soles.

No. 219,547. Patented Sept. 9, 1879.

Fig. 1.

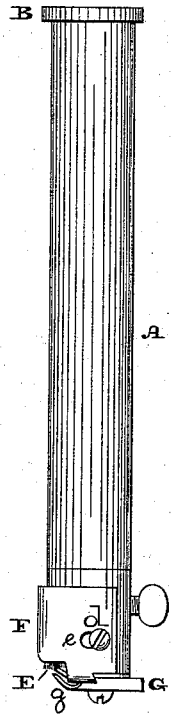


Fig. 2.

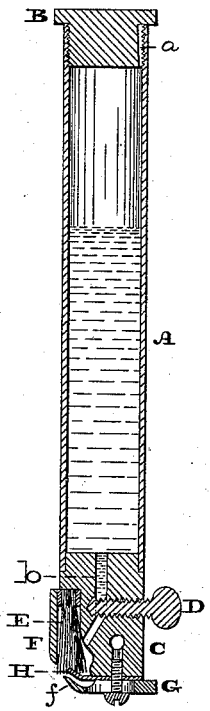


Fig. 3.

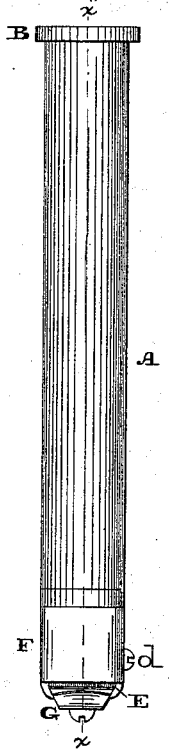
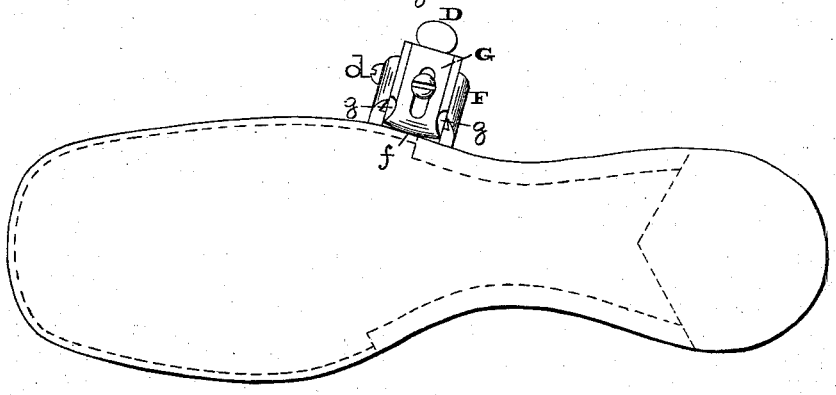


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

AUSTIN E. WHEELER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN CHANNEL-STRIPERS FOR BOOT AND SHOE SOLES.

Specification forming part of Letters Patent No. **219,547**, dated September 9, 1879; application filed February 18, 1879.

To all whom it may concern:

Be it known that I, AUSTIN E. WHEELER, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Channel-Stripers for Boot and Shoe Soles, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figures 1 and 3 are side elevations of the striper embodying my invention. Fig. 2 is a central longitudinal section in line *x x*, Fig. 3. Fig. 4 is a bottom view of the striper as applied to a sole, the upper face whereof is presented.

Similar letters of reference indicate corresponding parts in the several figures.

My invention has for its object the convenient and uniform channel-striping of boot and shoe soles; and consists of a color-fountain and an applying-brush, in combination with a stock provided with a duct which directs the color or ink to the brush.

It also consists of a foot for guiding the striper and adjusting the gage of the stripe to be marked or channeled.

It also consists of a valve for controlling the supply of color.

It also consists of an adjustable cap for permitting the use of brushes of different thicknesses.

It also consists of a plate for directing the color to the portion of the brush which immediately marks the stripe.

It also consists of a channel in the foot for preventing overflow dripping on the soles.

Referring to the drawings, A represents a tube, constituting a fountain for color or ink to be applied to the sole; and B, the top plug or cover, which is provided with a vent, *a*. To the bottom of the tube is secured a stock, C, in which is a duct, *b*, communicating with the fountain A, and having a side outlet. D represents a valve, which is passed through the stock so as to enter the duct *b* at an angle thereto, whereby the supply of color or ink may be controlled and regulated. A portion of the stock C, at the side having the outlet of the duct *b*, is cut away, and in the space thus formed is fitted a brush, E, whose end faces downward. In order to secure the brush in position, I employ a cap, F, which embraces the sides of the stock, presses the head of the brush against the stock, and is secured in position by means of a screw, *d*, which passes through a slot, *e*, of the cap into the stock, whereby the cap may also be adjusted to sustain brushes of different thickness.

To the bottom of the stock C is adjustably secured a foot, G, which, extending at or about at a right angle to the stock, and projecting under the end of the brush, is adapted to increase or decrease the extent of exposure or uncovering of the end of the brush E, and its forward end *f* serves as a guide for the striper during operation. Interposed between the foot and stock is a plate, H, which is arranged in proximity to what may be termed the inner half or portion of the face of the brush, thus leaving the other half or portion free and unobstructed.

The operation is as follows: The vent *a* is properly opened to admit the color or ink to the brush, the valve D adjusted to the required supply of the color, and the foot G set relatively to the gage of the stripe to be marked or channeled. The edge *f* of the foot is rested against the side of the sole, and the brush is in contact with the bottom of the sole, near the side edge thereof, as in Fig. 4, which properly shows the upper face of the sole. The striper is then run around the sole, guided by the foot G, thus uniformly marking the channel and producing superior work, the means employed being simple and convenient.

It is evident that wide and narrow stripes may be produced by properly setting the foot G.

Owing to the plate H, the color or ink is directed mainly to that portion of the face of the brush which is left uncovered by said plate, whereby the brush is properly supplied with color or ink at the applying part.

The upper face of the foot is concave, and the sides are cut away or channeled, as at *g*, whereby, should there be any dripping of the color from the brush, it will flow into the concave of the foot and discharge at the channels *g*, away from the edge *f*, thus preventing soiling of the sole or blurring of the channel-stripe.

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

1. The fountain A and stock C, provided with duct *b*, in combination with the brush E, substantially as and for the purpose set forth.

2. A channel-striper provided with the foot G, which projects under the brush and is adjustably connected to the stock, whereby stripes of different widths may be produced, substantially as and for the purpose set forth.

3. The fountain A, stock C, with duct *b*, and brush E, in combination with the valve D, substantially as and for the purpose set forth.

4. The stock C and brush E, in combination with the cap F, substantially as and for the purpose set forth.

5. The stock C, with duct *b*, and the brush E, in combination with the plate H, substantially as and for the purpose set forth.

6. The fountain A and brush E, in combination with the foot G, formed with side channels, *g*, substantially as and for the purpose set forth.

7. The fountain A, in combination with the stock C, brush E, valve D, adjustable cap F, and adjustable foot G, substantially as and for the purpose set forth.

AUSTIN E. WHEELER.

Witnesses:
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