

(No Model.)

H. E. HENRY.
BRUSH.

No. 587,964.

Patented Aug. 10, 1897.

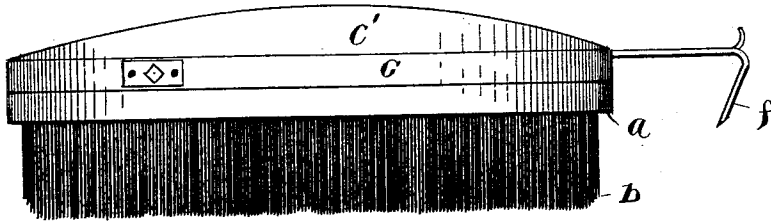


Fig. 1.

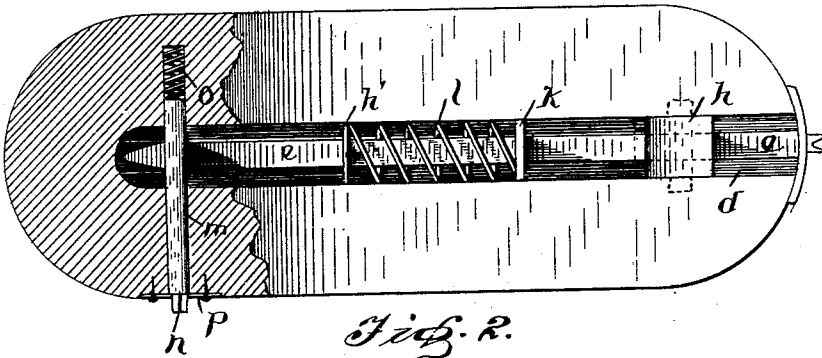


Fig. 2.

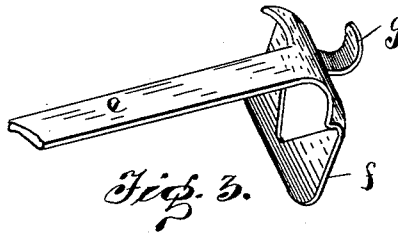


Fig. 3.

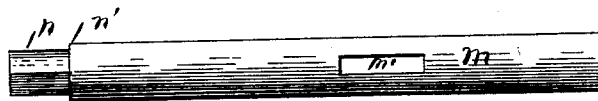


Fig. 4.

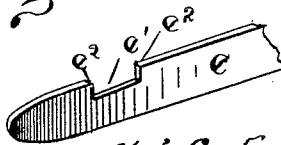


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

HARRY E. HENRY, OF PITTSBURG, PENNSYLVANIA.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 587,964, dated August 10, 1897.

Application filed May 12, 1897. Serial No. 636,144. (No model.)

To all whom it may concern:

Be it known that I, HARRY E. HENRY, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Brushes, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in brushes, and relates more particularly to that class known as "blackening-brushes," and has for its object to construct a brush of this type having in combination therewith a two-edged scraper which when not in use will be held in close proximity to the rim of the brush and when desired for use may be readily extended some distance out from the brush by means of a mechanism arranged within and wholly concealed by the back of the brush; and to this end the invention consists of the novel construction, combination, and arrangement of parts to be hereinafter more specifically described, and particularly pointed out in the claims.

A further object of the invention is to construct a brush of this kind which will not materially alter the shape of the ordinary brush and which may be manufactured with but a slight additional cost, and, still further, that will be extremely simple in its construction, strong, durable, and effectual in the performance of all its functions.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like letters of reference indicate similar parts throughout the several views, in which—

Figure 1 is a side elevation with the scraper extended in position for use. Fig. 2 is a top plan view, partly in section and with the back removed to show the interior mechanism of the scraper. Fig. 3 is a perspective view of a portion of the scraper. Fig. 4 is a plan view of the locking-bar for holding the scraper in close proximity to the brush-rim. Fig. 5 is a perspective view of a portion of the bar carrying the scraper.

Referring now to the drawings by reference-letters, *a* indicates the backing or plate, in which the bristles *b* are secured in the ordinary or any suitable manner, and secured

to the upper face of said backing is a block or plate *c*, which is provided with a groove *d*, extending from one end of the brush to a point near the opposite end, thus being in longitudinal alinement with the said block, and is adapted to receive the operating-bar *e*, carrying on its outer end a hoe-shaped scraper *f*, having a cut-away portion, the material from said cut-away portion being formed into a hook *g*. The said bar *e* is secured in the groove *d* by means of guides *h* and *h'*, through which the bar *e* operates, said bar carrying a plate *k*, and has arranged thereon between the plate *k* and the guide *h'* a coil-spring *l*. Near its inner end the bar *e* is provided with a notch *e'*, forming shoulders *e²*, which engage the locking-bar *m*, through the slot *m'*, formed therein, said locking-bar extending transversely of the block *c*, the outer end *n* protruding through said block and the inner end operating in an aperture, having a spring *o* arranged between the bottom of the opening and the end of the locking-bar *m*. This bar *m* is also provided with a shoulder *n'*, which abuts against the plate *p* and secured to the rim of the block *c*, thus holding the locking-bar *m* in position.

The operation is as follows: Assuming that all parts have been secured in their respective positions, as shown and described, and it is desired to use the scraper, the operator presses upon the projecting point *n* of the locking-bar, which forces the same away from the shoulder *e²* and the bar *e* and permits the spring *l*, by reason of its pressure against the plate *k*, to force the bar *e* and the scraper outwardly into the position as shown in Fig. 1 of the drawings, in which position it will remain by reason of the tension of the spring. The scraper *f* and the hook *g* are then employed as desired, said hook being adapted to remove all dirt that may have accumulated between the sole and the upper of the shoe. When it is desired to return the scraper to the position shown in Fig. 2 of the drawings, a pressure on the outer end of the same will compress the spring *l* and reënter the bar *e* within the slot *m'* of the bar *m*, and as the notch *e'* of the said bar *e* comes into engagement with the slot *m'* the spring *o* will force the locking-bar into engagement with the shoulders *e²* *e²* of the bar *e* and hold the

scraper in its position against the rim of the brush. A suitable cover or back *c'* is secured on the upper face of the block *c*, thus hiding the interior mechanism of the brush. By this arrangement it will be observed that all dirt may be effectually removed from any crevices of the shoes, which would not be obtainable with the ordinary bristles, and it will also be observed that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

1. In a brush, a block secured to the back thereof, said block provided with a longitudinal groove, guides arranged in said groove, a bar operating through said guides, a scraper on the outer end of said bar, a spring arranged on the bar to operate the same, and a locking-bar arranged transversely of the

block to hold the scraper in close proximity thereto and permit the spring-arranged bar to force the scraper outwardly from the brush, substantially as shown and described. 25

2. In a brush the combination of a block secured to the back of the brush, a bar operating in said block, a scraper provided with a hook on the outer end of said bar, a spring arranged on the bar for operating same, and a locking-bar arranged transversely of the block to hold the scraper in close proximity to the block and permit the same to be forced outwardly in position for use, substantially as shown and described. 30 35

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

HARRY E. HENRY.

Witnesses:

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