E. WILSON.

RENEWABLE SHOE BRUSH AND POLISHER.

APPLICATION FILED APR. 19, 1909.

964,355.

Patented July 12, 1910.

3 SHEETS—SHEET 1.

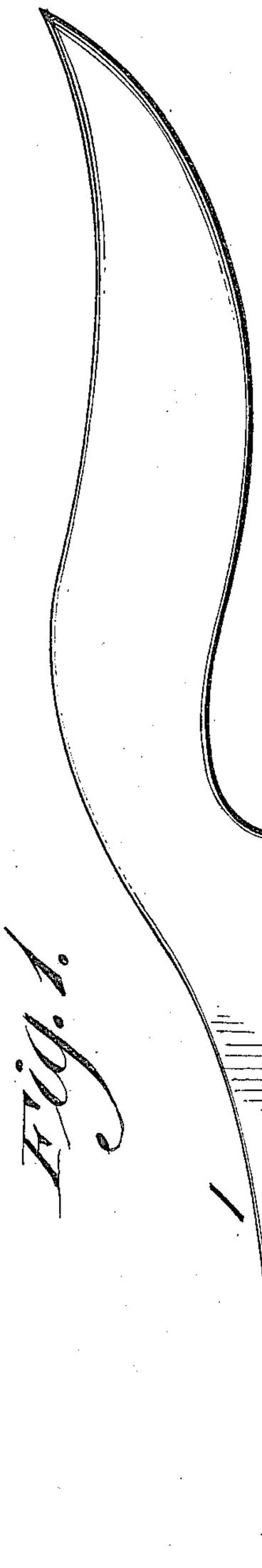

Fig. 1.

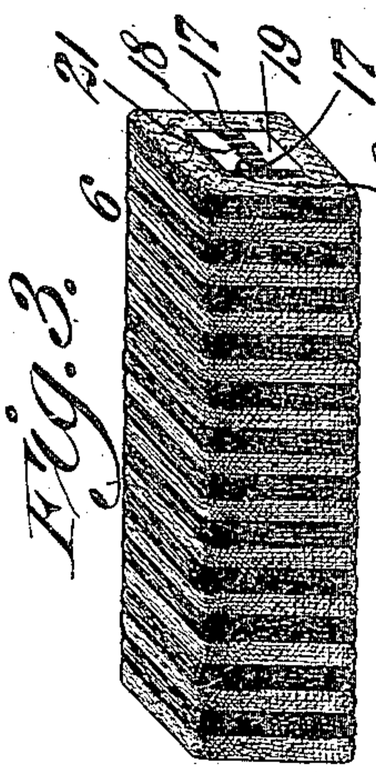

Fig. 3.

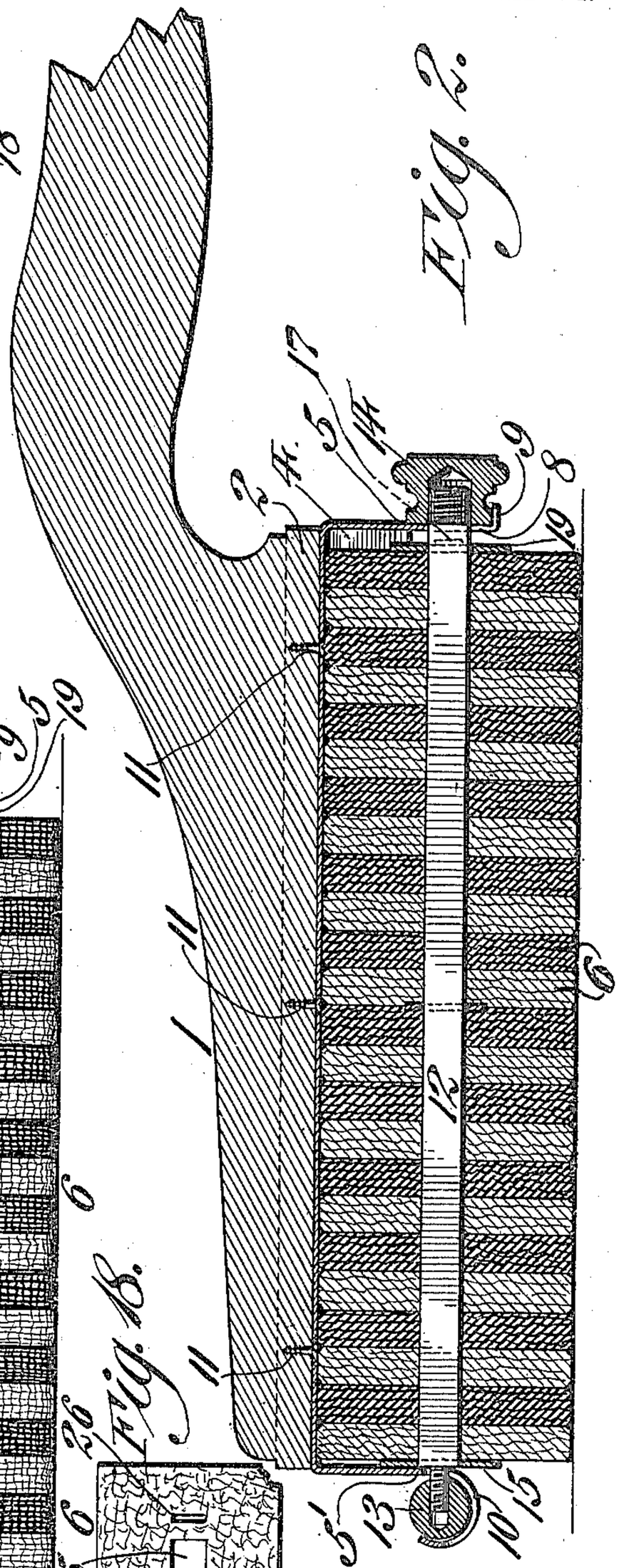

Fig. 2.

Fig. 4.

Witnesses

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Fig. 4.

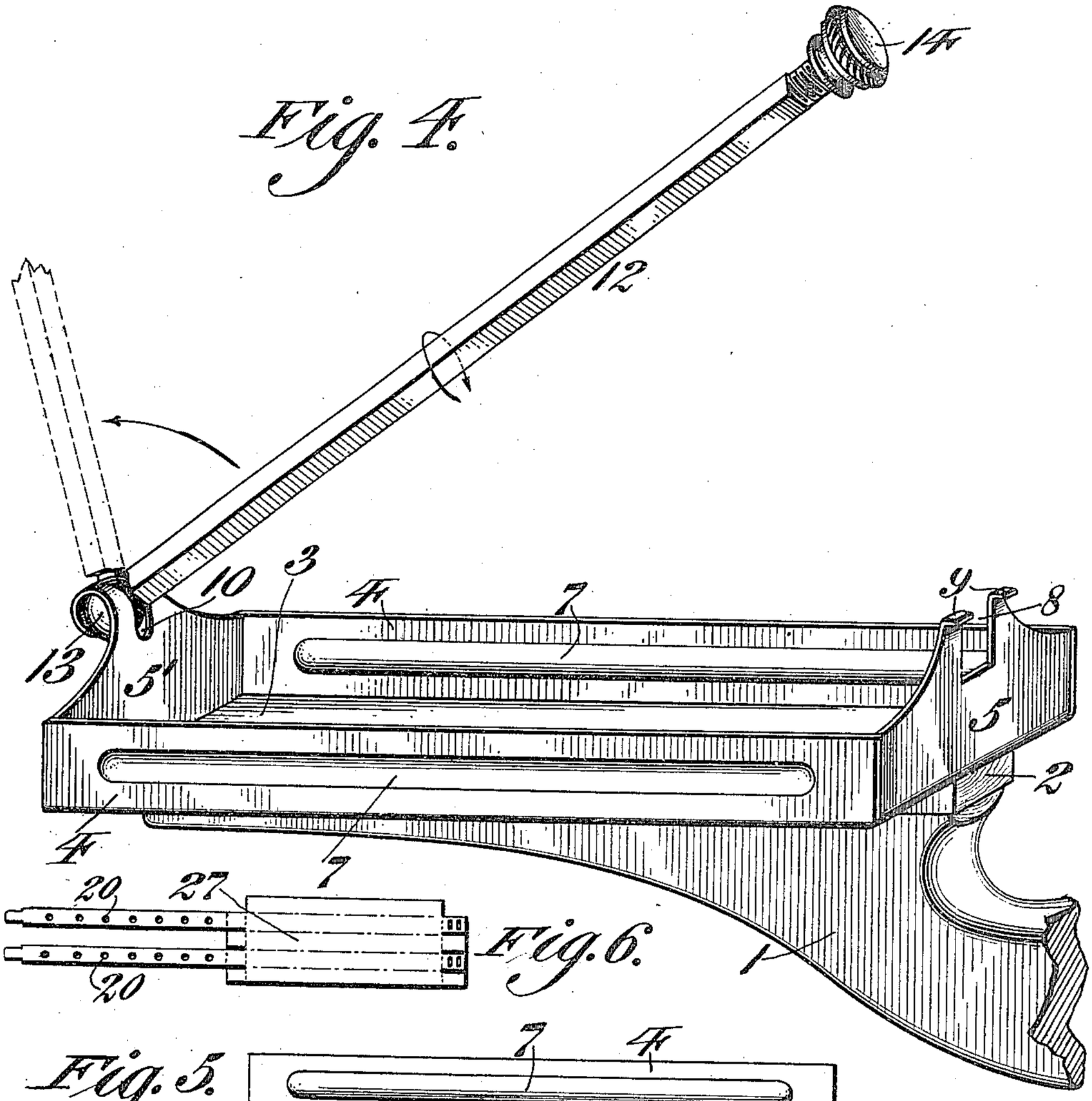


Fig. 6.

Fig. 5.

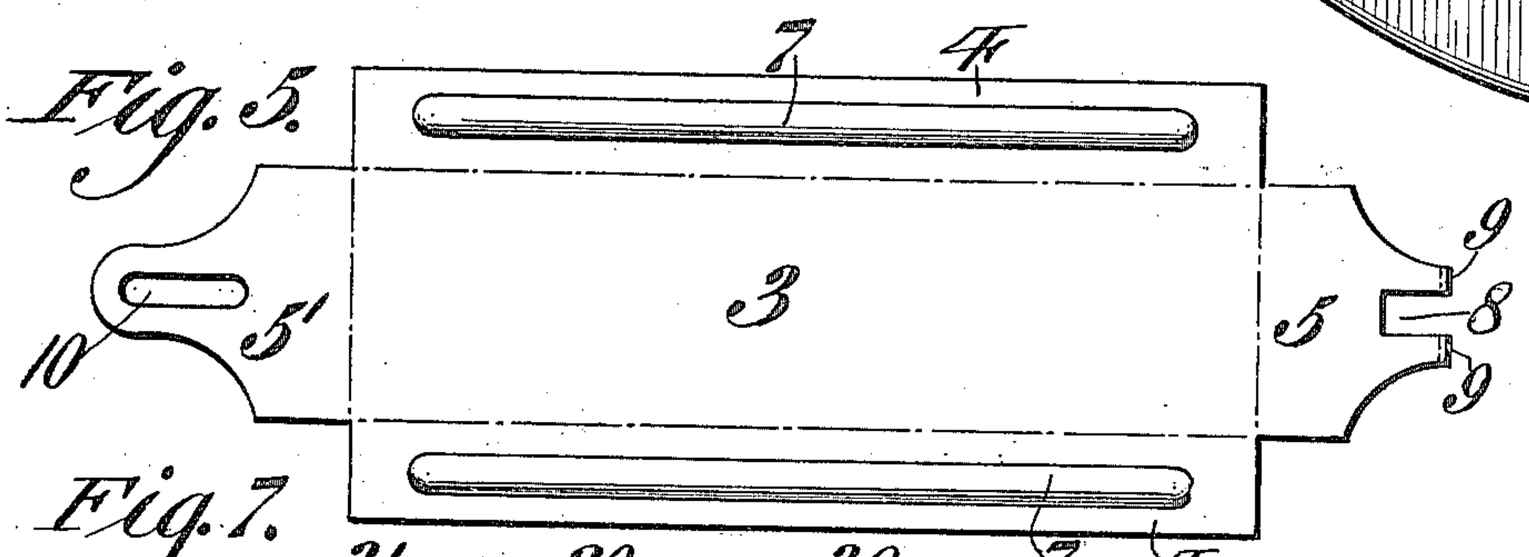


Fig. 7.

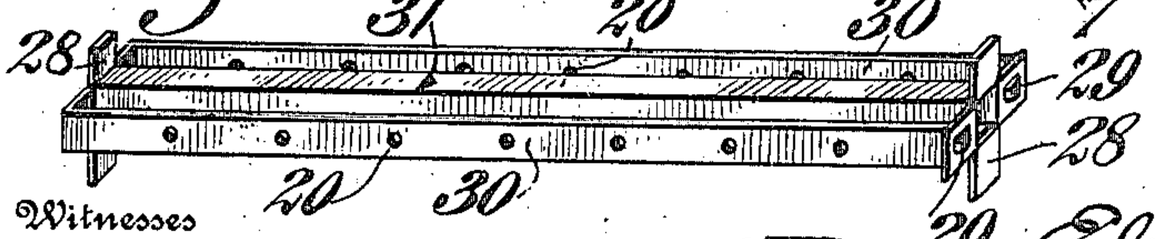
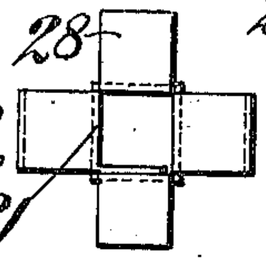


Fig. 8.



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3 SHEETS—SHEET 3.

Fig. 9.

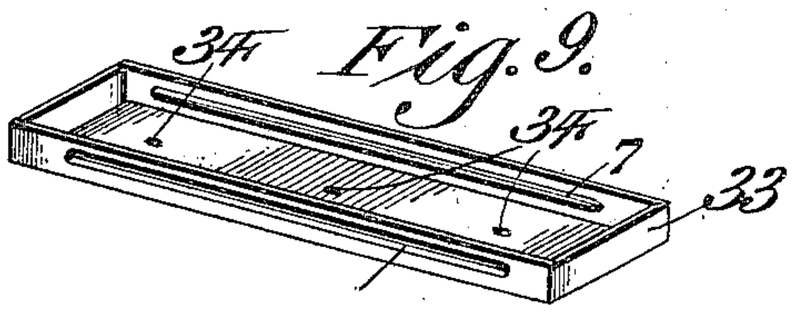


Fig. 10.

Fig. 15.

Fig. 16.

Fig. 17.

Fig. 11.

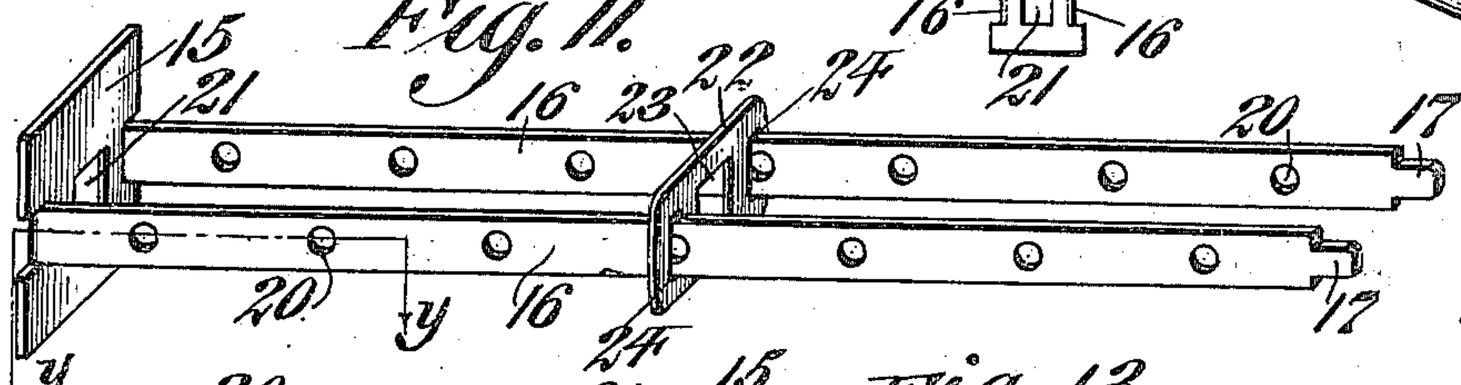


Fig. 12.

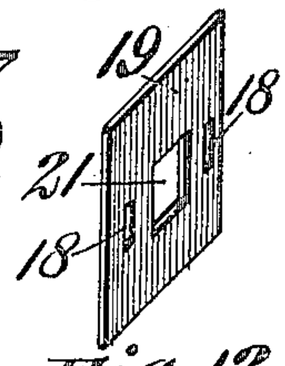


Fig. 13.

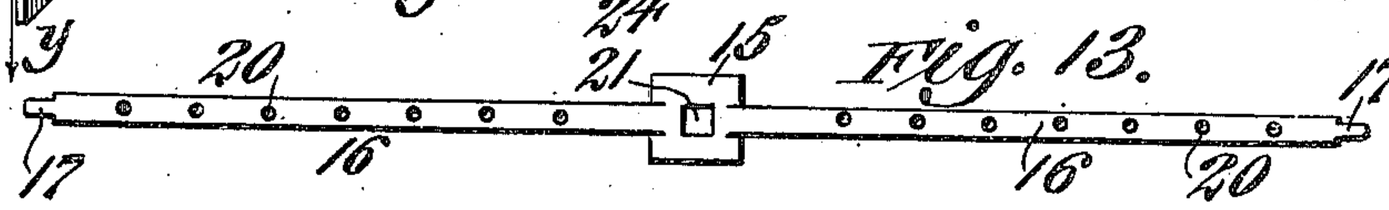
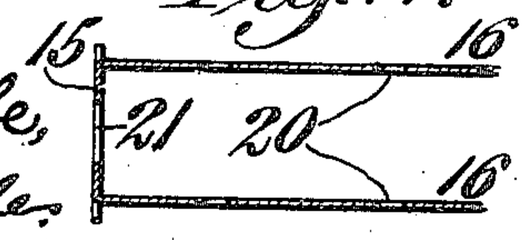


Fig. 14.



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UNITED STATES PATENT OFFICE.

ELNATHAN WILSON, OF PHILADELPHIA, PENNSYLVANIA.

RENEWABLE SHOE BRUSH AND POLISHER.

964,355. Specification of Letters Patent. Patented July 12, 1910.

Application filed April 19, 1909. Serial No. 490,779.

To all whom it may concern:

Be it known that I, ELNATHAN WILSON, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Renewable Shoe Brush and Polisher, of which the following is a specification.

This invention relates to a new and useful shoe brush or polisher and more particularly that type of device wherein the polishing means may be removed from the handle and adjusted to bring a new working face into place or whereby the entire new brush may be readily inserted in place of the worn out brush.

The object of the invention is to provide a simple and effective means of assembling a polishing brush whereby these parts may be quickly and readily displaced by new ones, the entire operation requiring but a small fraction of time and the displacement of but few parts.

For the purpose of illustrating my invention, I have shown in the accompanying drawings one form thereof which is at present preferred by me, since the same has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein shown and described.

Figure 1 represents a side elevation of a shoe brush or polisher embodying my invention. Fig. 2 represents a sectional elevation of the same. Fig. 3 represents a perspective of the polishing means of the device. Fig. 4 represents a perspective of the holder. Fig. 5 represents the blank from which the holder is formed. Fig. 6 represents a blank for forming a modified form of support for the polishing means. Fig. 7 represents a perspective of a modified form of support. Fig. 8 represents an end of the same. Fig. 9 represents a modified form of a brush holder. Fig. 10 represents a perspective of the brush holder shown in Fig. 9 and its coöperating adjuncts. Fig. 11 represents a perspective of the preferred form of brush support. Fig. 12 represents a detached end of the same. Fig. 13 represents a blank for forming a portion of the support. Fig. 14 represents a section on line *y*—*y*, Fig. 11. Figs. 15, 16 and 17 represent details of the support shown in Fig. 11. Fig. 18 represents a section on line *z*—*z*, Fig. 3.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 1 designates the body portion of a blacking brush or polisher the same having a suitable base 2 for the attachment of my novel polishing means and its adjuncts. In the present instance I perferably form from a blank 3 a holder for the polishing means having sides 4 and end wings 5 and 5′ thereon which are suitably joined together in any well known manner to receive a polishing means 6. As here shown, the sides 4 are provided with slight depressions 7 preferably extending substantially throughout the length of said sides while one end wing 5 is provided with an open end slot 8 for a purpose to be described, the sides of which have integral therewith ears 9 extending outwardly to serve the purpose of a locking means for the polishing means 6 when in adjusted position. The end wing 5′ has a slot 10 therein, the sides of which are extended to form a tongue-like end which in the present instance is bent on a substantial curve to form a socket serving as a bearing for a part to be presently described. The holder is adapted to be secured to the base or handle 2 in any desired manner and may be fastened thereto by screws 11 or equivalent devices.

12 designates a bar adapted to carry the polishing means 6 and in the present instance the same consists of a rectangular member having threaded ends one of which is adapted to receive a ball or collar 13 while the other receives a thumb nut 14. It will be apparent that, when one end of the bar 12 is passed through the slot 10 and the ball 13 is secured thereon a joint is formed, permitting a swinging movement of the bar relative to the holder, which movement permits the polishing means 6 being removed or turned from one position to another. The opposite end of the bar 12 fits into the open ended slot 8 and when the thumb nut 14 is screwed into place the bar is held rigidly between the two ends of the holder and its removal therefrom is prevented by the ears 9.

15 designates an end plate of a support for the polishing means the same having preferably formed integral therewith side bars 16

each of which terminates in a tongue 17 for the purpose of coöperating with one of a pair of slots 18 cut in a plate 19 forming the opposite removable end of this support. At suitable intervals each bar 16 is provided with apertures 20 for coöperation with the fabric or the like of the polishing means. The end plates 15 and 19 are each provided with a central aperture 21 of a contour corresponding to the shape of the bar 12 so that the entire support may be readily slipped over the bar 12 into its proper operating position.

22 designates spacer plates provided with a central opening 23 and side openings 24 for engagement respectively with the bar 12 and the side members 16, the object of said plates being to maintain the side members 16 properly spaced apart when in engagement with the polishing means. As here shown, the polishing means 6 consists of a plurality of rectangular pieces of felt or other suitable material each provided with an opening 25 and adjacent slots 26, the said apertures 25 and 26 being adapted to receive the side member 16 when in adjusted position. In assembling the support for the polishing means, the end plate 19 is removed, as also the spacer plate 22 and a number of polishing sections are then slipped over the side bars 16, the latter passing through the respective openings 24. At suitable intervals the spacer plates 22 are slipped on the bars 16 and then more polishing sections added until the support is substantially filled, whereupon it is slipped over the bar 12, which latter is then dropped into place within the holder and the thumb nut 14 screwed into engagement with the end wing 5, thereby providing a simple, strong and effective polishing device.

It will be readily apparent that if it is desired to change one face of the brush which may have become worn, all that is necessary is to remove or loosen the thumb nut 14, whereupon the bar 12 may be raised and turned to bring another face to the working side, after which the bar can be slipped back into place and locked by the thumb nut, as already described. The depressions 7 in the holder serve to permit a slight expanding of the fabric of the polishing means, thereby preventing any undesirable movement of the parts when in operation. Furthermore, these depressions 7 also afford a convenient means to grip the holder by hand when the same is not attached to a base or handle, as herein illustrated. The apertures 20 in the supporting frame serve also as a supporting means for the fabric, especially when the frame has first been treated with glue and the fabric is pressed into place.

Of course it will be apparent that when the plate 19 is brought flush against the last fabric section the tongue 17 projecting through the apertures 18 may be turned over, as shown in Fig. 15, to hold the parts securely together.

In Figs. 6, 7 and 8, I disclose another embodiment of a support for the polishing means, wherein the same is formed from a blank 27 which, when properly bent into shape, forms the frame shown in Fig. 7, the ends of which are so bent as to form wings 28, two of which ends are prolonged to form the side tongues 29, which latter are secured by overlapping the tongues 29 when in engagement with the coöperating wings 28.

In Figs. 9 and 10 a modified form of holder and support for the polishing means is shown wherein 32 designates a strip preferably of corresponding dimensions to the base 2 and having integral therewith the end wings 5 and 5′ formed as heretofore described.

33 designates the holder for the polishing means and is here formed as a tray or box like structure having apertures 34 therein for screws 11 or the like, whereby the same may be secured in position upon the strip 32, it of course being understood that like apertures are provided in proper alinement in the said strip.

It will now be apparent that I have devised a novel and useful construction which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description and while I have in the present instance shown and described the preferred embodiment thereof which has been found in practice to give satisfactory and reliable results, it is to be understood that the same is susceptible of modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

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

1. In a device of the character described, a body portion, a holder secured thereto having end wings, a bar pivotally mounted on one of said wings and having a detachable connection with the other wing, and a support for a polishing means adapted to cooperate with said bar.

2. In a device of the character described, a body portion, a holder secured thereto having end wings, a bar pivotally mounted on one of said wings and having a detachable connection with the other wing, a support for a polishing means adapted to coöperate with said bar and spacer members carried by said support.

3. In a device of the character described, a body portion, a holder secured thereto, end wings on said holder, one of said wings having a bearing socket therein, a bar having means coöperating with said socket to form

a pivot and means to detachably secure said bar to the other wing.

4. In a device of the character described, a body portion, a holder secured thereto, end wings on said holder, one of said wings having a bearing socket therein, a ball member adapted to coöperate with said socket, a bar connected to said ball member and means to lock said bar in the other wing.

5. In a device of the character described, a support for a polishing means, comprising a tubular member, end wings thereon, and side bars secured to two of said wings and having detachable connection with two opposite wings.

6. In a device of the character described, a holder having end wings, a bar pivotally mounted on one of said wings and having a detachable connection with the other wing, and a support for a polishing means adapted to coöperate with said bar.

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Witnesses:
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