E. E. ALLEN.

BRUSH.

APPLICATION FILED APR. 4, 1921.

1,413,700. Patented Apr. 25, 1922.

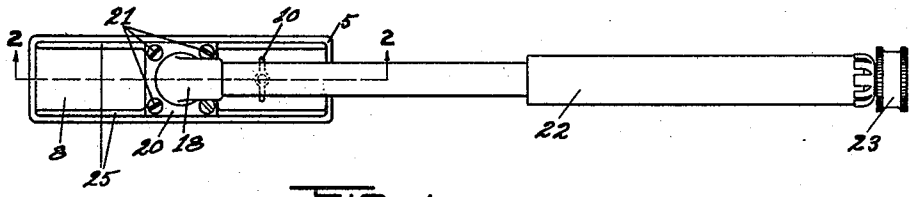


FIG. 1.

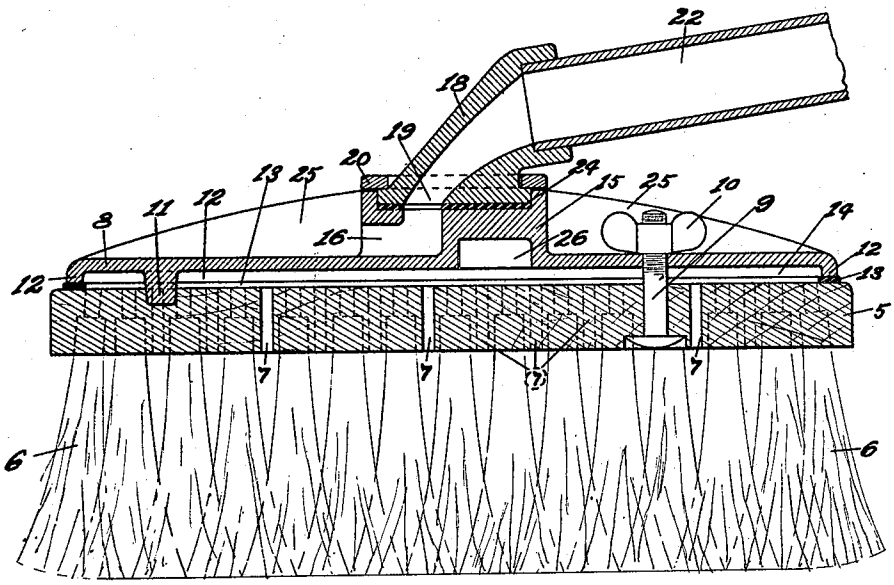


FIG. 2.

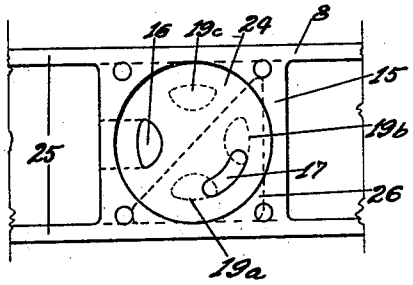


FIG. 3.

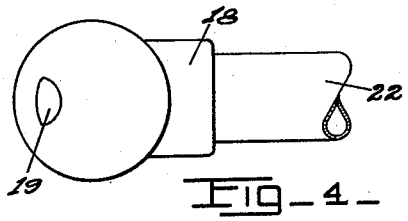


FIG. 4.

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BRUSH.

1,413,700. Specification of Letters Patent. Patented Apr. 25, 1922.

Application filed April 4, 1921. Serial No. 458,565.

To all whom it may concern:

Be it known that I, ERNEST E. ALLEN, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Brushes, of which the following is a specification.

This invention relates to brushes and the object is to provide a neat, inexpensive and practical brush especially adapted for use in cleaning and washing automobiles. The invention is fully described in the following specification and is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a top view of the brush and its handle.

Fig. 2 is an enlarged sectional detail view on the line 2—2 in Fig. 1.

Fig. 3 is a detail view of the top central part of the casting or plate 8.

Fig. 4 is a detail view of the underside of the valve coupling 18.

Referring to the drawing by reference numerals 5 designates a brush block having bristles 6 and a number of holes 7 through which water may pass to the bristles. An elongated back plate 8 is secured to the block 5 by a bolt 9 having a wing nut 10. The opposite end of the back 8 is guided and held in position by an integral projection 11 fitting in a similarly shaped notch in the block 5. The back is provided with a flange 12 between which and the block may be inserted a gasket 13, so that a space 14 will be left between the back and the block. The upper part of the back is provided with a portion 15 having a port 16 leading out over one of the plate ends, and a slot or port 17 leading to the inclosure or space 14. A coupling 18, having an outlet 19, is rotatably secured on the part 15 by a plate 20 secured by screws 21, and connects the brush to a hollow handle 22 which is adapted to be secured to a suitable supply hose by a coupling 23. A leather washer 24 acts as a seat for the coupling 18 and makes the joint watertight.

In the operation and use of the device when the brush is in the longitudinal position to the handle 22, as shown in Figs. 1 and 2, and the handle is connected to a water hose, then the water will pass through the ports 19 and 16 and straight out over the end of the back plate, it being prevented from spreading sideways by lateral strengthening ribs 25 formed integrally with the back. Thus a direct current of water can be had for washing purposes. When it is desired to direct the water into the brush bristles 6 it is only necessary to turn the entire brush on the coupling 18 until the port 19 is in either of the positions indicated by the dotted lines 19^a or 19^b in Fig. 3, or in any intermediate position, in which event the water will pass through the slot 17 to a chamber 26 and from there into the space 14 and through the holes 7 to the bristles. Thus practically any angle of the brush can be secured under various conditions and still keep the flow of water through to the bristles. When neither washing nor scrubbing is to be done, the brush can be turned to the right angular position in which the port 19 will rest in the position 19^c (see Fig. 3), so that the washer 24 will act as a valve and close all escape for the water. While in this position the block 5 can be conveniently detached and substituted by a block having softer or stiffer bristles when so desired.

It is of course understood that suitable modifications may be made in the form and structure of this invention if such modifications come within the spirit and scope of the appended claims. Having now therefore fully shown and described my invention, what I claim to be new and desire to protect by Letters Patent is:

1. A device of the class described consisting of a perforated brush block, a back plate secured thereto and having an upwardly enlarged central portion, said portion having a flat seat on which is rotatably secured the flat end face of a coupling, the other end of the coupling being provided with a tubular handle, said seat having two ports, one leading to the brush block and the other opening out over one end of the back plate, said coupling face having a discharge opening adapted to selectively communicate with either of said ports.

2. A device of the class described consisting of a perforated brush block, a back plate secured thereto and having an upwardly enlarged central portion the same having a chamber in its under side, said portion also having a seat on which is rotatably secured one end of a coupling, the other end of the coupling being provided with a tubular

handle, said portion being provided with a port leading from said seat to said chamber and a second port leading from the seat and having its outlet directed over one end of the back plate, said coupling having a discharge opening adapted to selectively communicate with said ports.

3. A device of the class described consisting of a perforated brush block, a back plate secured thereto, an integral portion of said back plate extending upwardly at the middle port thereof, lateral ribs integral with the plate and extending substantially from said integral portion to the ends of the plate, a seat in said portion the same having two ports, one communicating with the brush block and the other discharging directly out over the top of one end of the back plate between the ribs thereon, a coupling rotatably mounted on the seat, said coupling being adapted, when turned, to supply water to either of said ports, selectively.

4. A device of the class described, consisting of a perforated brush block, a back plate secured thereto, a portion of said plate having a circular seat in its upper face, a coupling, having a tubular handle at one end, rotatably mounted at its other end on said seat, the end of the coupling engaging the seat having an annular integral rim, a ring plate secured to the plate and adapted to engage the upper edge of said rim, so as to hold the coupling firmly seated, said seat having a direct discharge port and a brush feeding port adapted to be selectively fed by an opening in the end of the coupling adjacent the seat.

In testimony whereof I affix my signature.

ERNEST E. ALLEN.