Sept. 20, 1932. F. J. QUIST 1,878,323

METAL BRUSH

Filed March 3, 1930

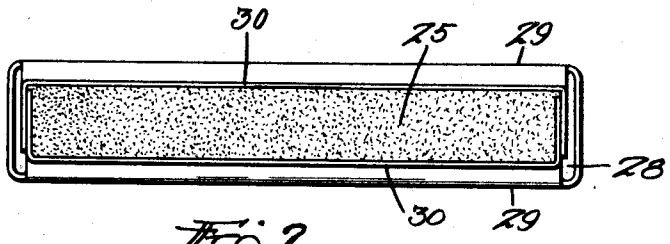
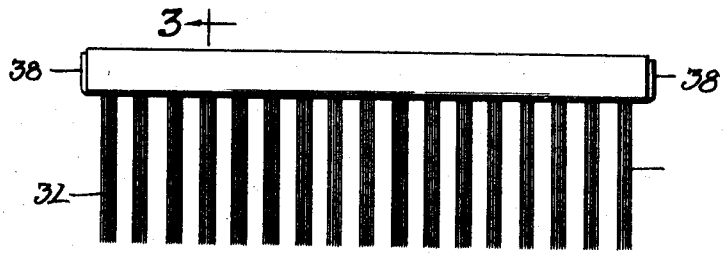


Fig. 2.



3 Fig. 1.

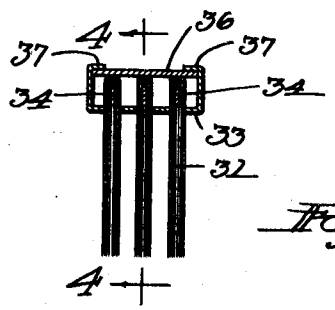


Fig. 3.

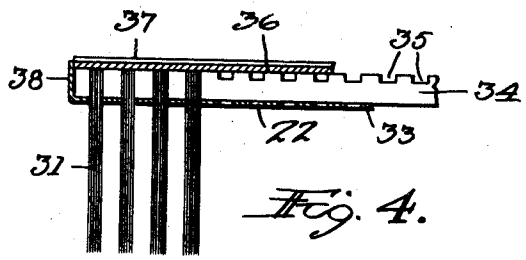


Fig. 4.

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Patented Sept. 20, 1932 1,878,323

UNITED STATES PATENT OFFICE

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METAL BRUSH

Application filed March 3, 1930. Serial No. 432,694.

This invention relates to a brush having bristles of wire or flexible metal.

The principal objects of the invention are to provide a brush with a removable and replaceable brush unit, and to provide improvements in the brush units whereby they will be strong and durable.

Other objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawing in which

Fig. 1 is a side view of a complete brush constructed in accordance with this invention;

Fig. 2 is a plan of the same;

Fig. 3 is a sectional view on the line 3—3 of Fig. 2, and

Fig. 4 is a sectional view on the line 4—4 of Fig. 3.

The invention relates to a brush suitable for use by painters for removing old paint and other obstructions from walls and buildings and also capable of use for many other purposes such as removal of carbon from internal combustion engines and the like.

In the form of brush unit shown, the bristles are shown in the form of straight wires or strips 31 and they are bent into U-shaped form, both legs of which pass through openings 22 in the bottom of a casing 33 formed of sheet metal. They are held in place by strips or wires 34 which extend longitudinally and around which the tops of these U-shaped wires pass. These strips are provided with notches 35 which are shown as square-shouldered to receive these wires. Several of these wires together of course constitute a tuft. Any desired number of these strips can be assembled in the holder 33 and that is completed in this case by putting in a separate strip 36 at the top and bending the flanges 37 of the sheet metal holder around the same. The ends are closed by bending up the ends 38 of the part 33 at both ends.

These brush units can be inserted in the back of the brush and of course it will be understood that many other types of brush units can be used in this brush back. In all cases they are firmly held in position. The expense is comparatively small and they take the place of hand scrapers ordinarily. When used in removing carbon from internal combustion engines or for removing paint and the like, their use involves a material saving in labor. These brushes are very durable and one handle can be used with a large number of units either of different grades and kinds for different purposes or to replace those worn out.

Although I have illustrated and described only one form of the invention, I am aware of the fact that modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims. Therefore, I do not wish to be limited to all the details of construction herein shown and described, but what I do claim is:—

1. As an article of manufacture, a brush comprising a body formed of sheet metal, tufts of wire bristles doubled at their centers and passing through the bottom of said body, the doubled portions extending above said bottom, strips of metal extending along said bottom on the upper surface thereof and having notches for receiving the said doubled portions, whereby said portions are held in position, and a strip of metal resting on the tops of said folded portions to hold the bristles in the notches.

2. As an article of manufacture, a brush comprising a U-shaped body formed of sheet metal, the bottom being perforated to receive bristle tufts and the sides being bent inwardly at the top, tufts of wire bristles doubled at their centers and passing through the perforations in the bottom of said body, the doubled portions extending above said bottom, means for receiving the said doubled portions and holding them in positoin at the top of said body, and a strip of metal resting on the tops of said folded portions to hold the bristles in position, said strip being located under said bent-in portions of the sides and closing the top of the back.

In testimony whereof I have hereunto affixed my signature.

FRANK J. QUIST.