March 24, 1925. 1,531,225

W. D. ROSE

BRUSH

Original Filed May 26, 1923

Fig. 1.

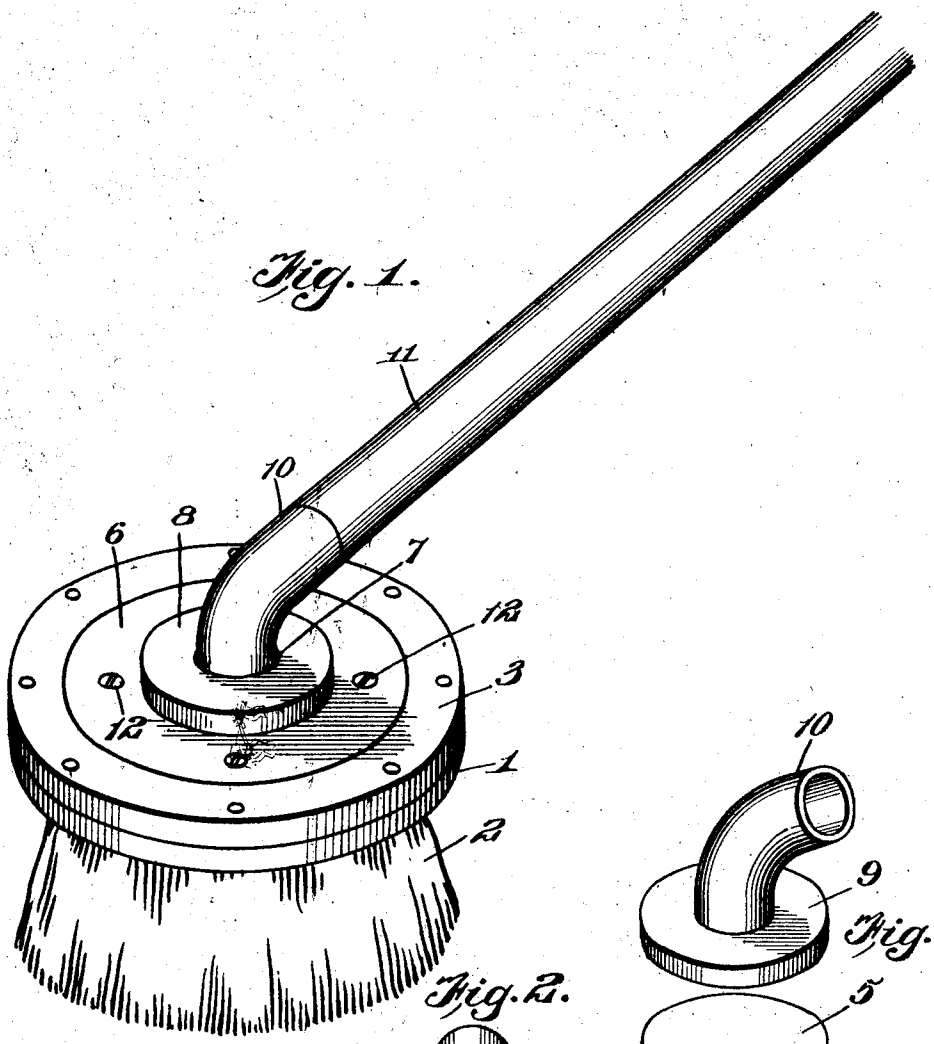


Fig. 2.

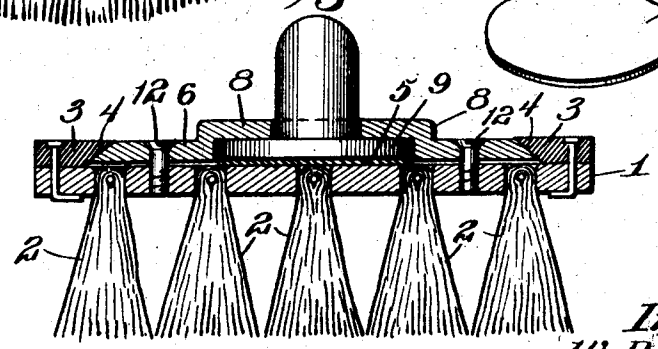


Fig. 3.

Inventor
W. D. Rose
Jas. Inwin
Atty

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UNITED STATES PATENT OFFICE.

WILLIAM DAVIS ROSE, OF PORTLAND, OREGON.

BRUSH.

Application filed May 26, 1923, Serial No. 641,588. Renewed August 22, 1924.

To all whom it may concern:

Be it known that I, WILLIAM DAVIS ROSE, a citizen of the United States of America, residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Brushes, of which the following is a specification.

This invention relates to improvements in brushes.

The object of the invention is to provide a brush, which when reciprocated over a surface being cleaned, rotates to distribute the wear on the bristles and insure of the whole surface being cleaned.

A further object of the invention is to provide means between the top of the brush head and the bottom of the head of the handle to prevent wear and tear on the ends of the bristles when operating the brush.

The invention also comprehends improvements in the details of construction and arrangement of parts which will be hereinafter described and particularly pointed out in the claims.

In the accompanying drawings:

Fig. 1 is a perspective view of my improved brush.

Fig. 2 is a vertical section of the same.

Fig. 3 is a detail view.

1 indicates a circular brush head provided with depending bristles 2, the head being made of hard rubber. A circumferential flange 3 is formed on or secured to the top of the head 1, and its inner edge is undercut as shown at 4, the flange being flush with the edge of the head and formed of hard rubber or the like. Supported on the tops of the bristles 2 is a wear plate 5, seated in a recess formed in a metal retaining plate 6, outwardly bevelled at its edge to engage under the undercut portion 4 of the flange 3.

The retaining plate is enlarged between the center and circumference, and at its center is formed an opening 7, and surrounding the upper edge of the wall of the opening is an annular flange 8. Fitting in the opening 7 and supported on the wear plate 5, is a disc 9, which engages under the flange 8 to confine it in its operative position. Extending from the disc 9 is a handle socket 10, which receives a handle 11.

The flange 3 will ordinarily hold the plate 6 in assembled position, but to make sure that the plate will not become separated when the brush is in use, I provide screws 12 or the like to lock the plate to the head 1.

When the parts are assembled, the disc 9 finds a bearing on the wear plate 5 and in the opening 7, consequently the brush head can freely rotate when it is reciprocated over a surface being cleaned. The wear plate prevents the disc wearing away the ends of the bristles, and at the same time serves as a means for spacing the plate 6 from said bristles.

In operation, the brush is reciprocated over the surface to be cleaned, and in such reciprocal movement, the head is caused to rotate or oscillate on the disc, with the result that the whole surface is subjected to an even brush action.

Because of the head 1 and flange 3 being made of hard rubber, it will not mar furniture or the like when striking the same in the reciprocation of the brush.

What I claim is:

1. A brush, comprising a flat round head having an edge flange formed of hard rubber, the flange being undercut on its inner edge, a plate having its edge bevelled to fit under the undercut edge of the flange, said plate having a central recess with an inwardly extended flange, a disc mounted in the recess under the flange and provided with a handle receiving device, and a wear plate between the disc and the top of the brush head.

2. A brush, comprising a flat round head having an edge flange formed of hard rubber, the flange being undercut on its inner edge, a plate having its edge bevelled to fit under the undercut edge of the flange, said plate having a central recess with an inwardly extended flange, and a disc mounted in the recess under the flange and provided with a handle receiving device.

In testimony whereof I affix my signature.

WILLIAM DAVIS ROSE. [L. S.]