

March 24, 1931.

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1,797,366

FLOOR BRUSH

Filed March 24, 1930

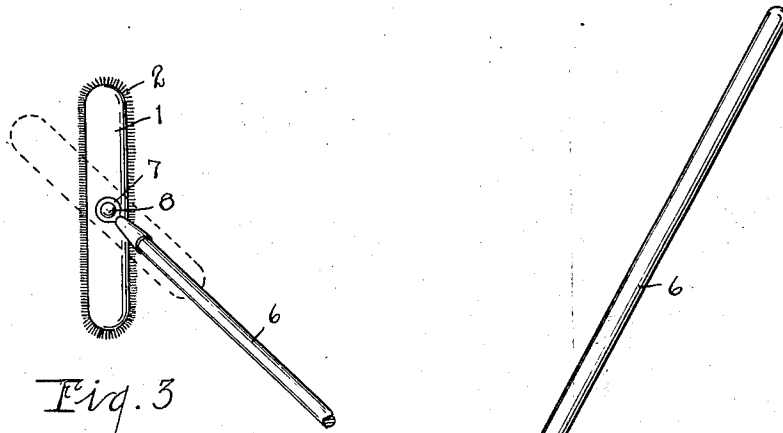


Fig. 3

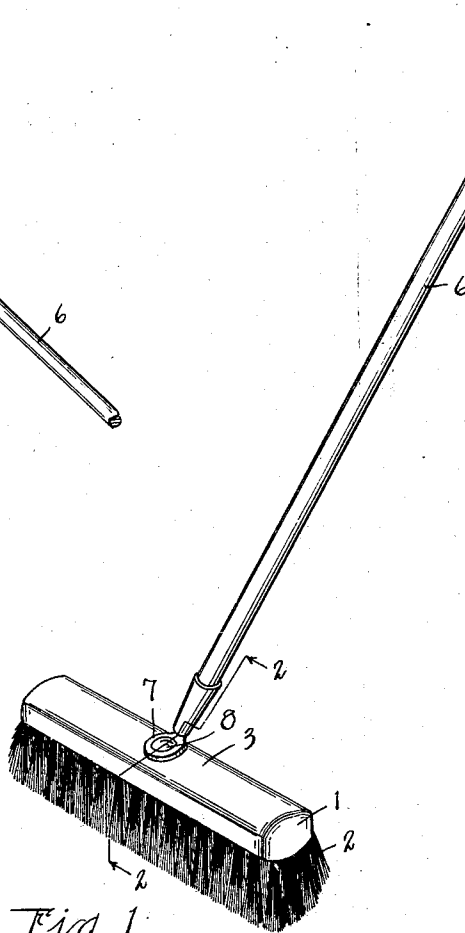


Fig. 1

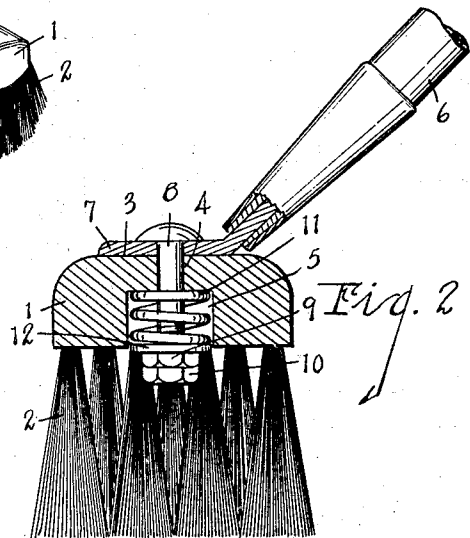


Fig. 2

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## UNITED STATES PATENT OFFICE

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## FLOOR BRUSH

Application filed March 24, 1930. Serial No. 438,493.

The main object of this invention is to provide a floor brush which is well adapted for use in theaters, schools, factories and the like or in other places where it is desired to clean under and around objects.

A further object is to provide a floor brush which greatly lessens the labor of cleaning.

A still further object is to provide a brush which may be conveniently used in the manner of manipulating a broom.

Objects relating to details and economies of my invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is illustrated in the accompanying drawing, in which:

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

Fig. 2 is a detail view partially in section on line 2—2 of Fig. 1.

Fig. 3 is a fragmentary plan view illustrating by full and dotted lines two of the possible adjustments of the brush.

Referring to the drawing, the brush head 1 has tufts or bristles 2 mounted in any suitable manner, the bristles being conventionally shown.

The head 1 has a flattened top surface 3 at the center thereof, a vertical bore 4 and a recess 5 in its underside, the bore opening centrally to the recess and to the flat surface.

The handle 6 is provided with an attaching plate or disk 7 disposed at an angle thereto and adapted to rest upon and frictionally engage the surface 3. A bolt 8 is arranged through the attaching plate and the bore 4 and is provided at its lower end with a nut 9 and coacting lock nut 10.

A coiled spring 11 is arranged in the recess, a thrust washer 12 for the spring being supported by the nut 9. The nut 9 may be adjusted to vary the tension of the spring which acts to clamp and frictionally hold the attaching plate 7 in its adjusted positions on the head so that the angle of the handle to the head may be varied as desired, certain of the adjustments being indicated in Fig. 3. When adjusted to the position shown by full lines

in Fig. 3, the brush may be manipulated in the manner of manipulating a broom. The position shown by dotted lines in Fig. 3 is a convenient position for cleaning under seats or chairs in auditoriums, schools and the like. The angle, however, may be varied from the position shown in Fig. 1 to the position shown by dotted lines in Fig. 3.

The head may be made relatively thin which is of advantage in that the brush with the same length of bristles may be manipulated under objects with greater convenience.

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

1. The combination of a brush head having a flattened top surface, a recess on its underside and a vertical bore opening to said recess, a handle provided with an attaching plate disposed on said flattened surface of said head, a bolt arranged through said attaching plate and said bore in said head and provided with an adjusting nut at its lower end, and a spring within said recess disposed between said nut and the end wall of said recess for holding said attaching plate frictionally upon said head for adjustably supporting the head at varying angles on the handle.

2. The combination of a brush head having a flattened top surface, a handle provided with an attaching plate disposed on said flattened surface, a bolt arranged through said attaching plate and brush head, a nut on said bolt below said head, and a spring arranged on said bolt with its upper end engaging said head and its lower end supported by said nut and holding said attaching plate frictionally upon said head for adjustably supporting the head at varying angles on the handle.

In witness whereof I have hereunto set my hand.

EUGENE C. RACKLIFFE.