June 16, 1925. 1,542,369

C. BYRD

FLOOR BRUSH

Filed April 5, 1923

Fig. 1.

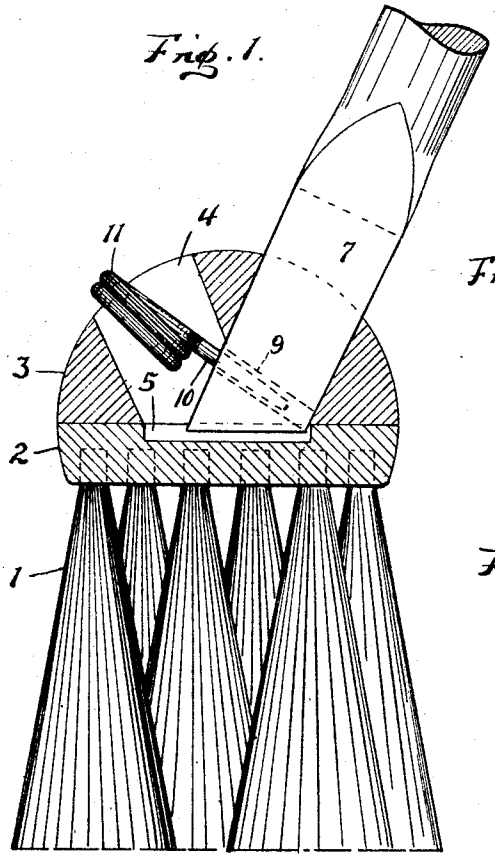


Fig. 2.

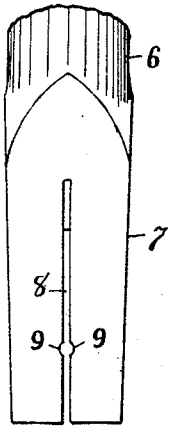


Fig. 3.

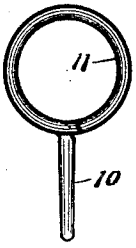
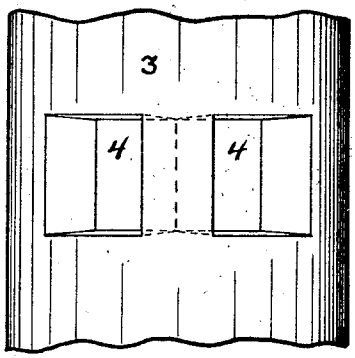


Fig. 4.



Charles Byrd, INVENTOR

BY

H. G. Burns ATTORNEY

Patented June 16, 1925. 1,542,369

UNITED STATES PATENT OFFICE.

CHARLES BYRD, OF FORT WAYNE, INDIANA.

FLOOR BRUSH.

Application filed April 5, 1923. Serial No. 629,978.

To all whom it may concern:

Be it known that I, CHARLES BYRD, a citizen of the United States of America, and resident of Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Floor Brushes, of which the following is a specification.

This invention relates to improvements in floor brushes and the object thereof is to afford a construction by means of which a handle may be detachably secured to the back of a brush at different angles and in such manner that it will be held rigidly in fixed connection therewith.

This object is accomplished by the construction illustrated in the accompanying drawings, in which:—

Fig. 1 is a transverse central section of a floor brush with a handle and securing means therefor shown in operable position;

Fig. 2 is a front elevation of the head of the handle;

Fig. 3 is a side elevation showing an eye-pin used for securing the handle in the back of the brush; and

Fig. 4 is a fragmentary plan view of the back of the brush.

The characters appearing in the description refer to parts shown in the drawings and designated thereon by corresponding characters.

The invention comprises a brush 1 having an anchor plate 2 and a back 3 to which the anchor plate is fixedly attached. The back 3 has divergent tapering openings 4, preferably square in cross section, and the anchor plate 2 has a cavity 5 in its top at the lower end of said openings.

The handle 6 has a square tapering head 7 that is shaped to fit in either one or the other of the openings 4 in the back 3. The head 7 is bifurcated, there being a longitudinal slot 8 made therein. Also, oppositely disposed depressions 9 are made in the head at the corresponding sides of the slot 8. The depressions are located so as to be accessible through one of said openings 4 in the back of the brush when the head is inserted in position in the other opening.

An eye-pin is formed of spring wire and comprises a straight shank 10 and a contiguous coiled head 11, the shank being preferably tapered toward its outer end and of a size that will admit of the reception of its lower end in the depressions 9 and cause the bifurcated head of the handle to spread when forcibly progressed into the slot. The head of the eye-pin is formed of coils of such size as to admit of its being forcibly inserted between the walls of the opening 4 and to be frictionally held therebetween when its shank is engaged in the head of the handle in the opposite opening.

In utilizing the invention the head of the handle is inserted into one or the other of the openings 4 in the back of the brush, and the eye-pin is inserted in the opposite opening 4 with the shank 10 extending between the bifurcated ends of the head, the eye-pin being forced into position so that the head of the handle is spread apart causing it to bind against the adjacent walls of the opening. In this manner the handle is held from twisting in the back of the brush and from becoming loose therein. The cavity in the top of the plate affords clearance for the lower end of the head of the handle when inserted into the back of the brush.

What I claim is:—

In a floor brush, a brush including an anchor plate; a back to which the anchor plate is secured, said back having divergent openings extending upwardly therethrough and intersecting at their lower ends, a handle having a bifurcated head, shaped so as to fit in either of said openings; and an eye-pin having a shank and contiguous coiled head, said eye-pin being applicable selectively through the openings in the back of the brush to spread the head of the handle in the opposite opening at a point beneath the intersection of said openings while its coiled head is secured in the corresponding opening from turning therein.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES BYRD.

Witnesses:
MATILDA METTLER,
WALTER G. BURNS.