W. H. FORESTER.

BROOM.

APPLICATION FILED OCT. 25, 1919.

1,358,369. **Patented Nov. 9, 1920.**

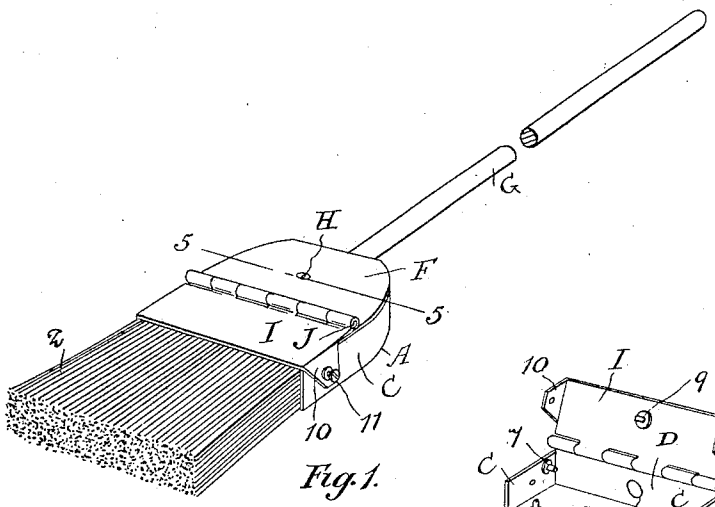


Fig. 1.

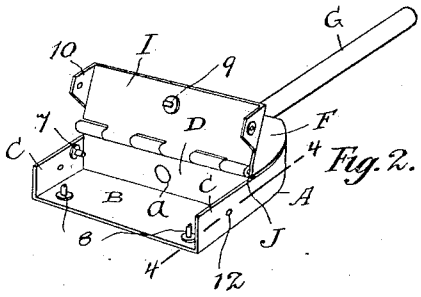


Fig. 2.

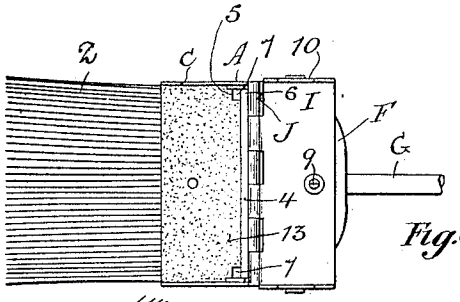


Fig. 3.

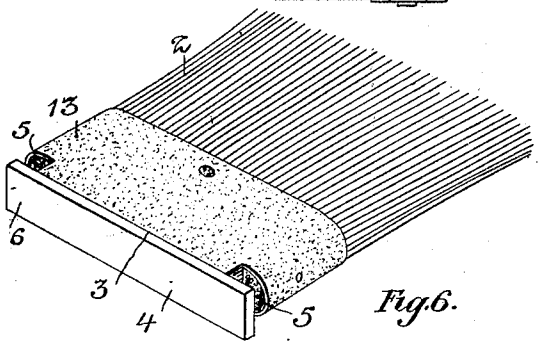


Fig. 6.

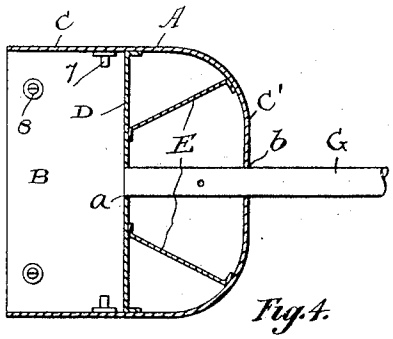


Fig. 4.

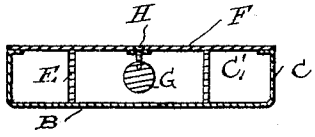


Fig. 5.

Inventor

W. H. Forester

By Egbert R. Case

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM HENRY FORESTER, OF PORTAGE LA PRAIRIE, MANITOBA, CANADA, ASSIGNOR OF ONE-HALF TO GEORGE FRANCIS BAILEY, OF TORONTO, ONTARIO, CANADA.

BROOM.

1,358,369. Specification of Letters Patent. Patented Nov. 9, 1920.

Application filed October 25, 1919. Serial No. 333,421.

To all whom it may concern:

Be it known that I, WILLIAM HENRY FORESTER, a subject of the King of Great Britain, of the town of Portage la Prairie, Province of Manitoba, Canada, have invented certain new and useful Improvements in Brooms, of which the following is a specification.

My invention relates to improvements in brooms, and the object of my invention is to provide a broom-head to which the handle is detachably connected so that in case of breakage thereof, another handle may be readily substituted. Another object of my invention is to provide a broom which can be mounted in and readily removed from the said head so that the worn stump can be replaced by a new broom, and without the necessity of having to provide a new broom. Further objects of my invention will be hereinafter particularly set forth, and what I claim as new will be set forth in the claim forming part of this specification.

Figure 1 is a perspective view of a handle-provided broom-head constructed according to my invention, and provided with a broom. Fig. 2 is a perspective view of the handle-provided broom-head shown in Fig. 1, showing the same open. Fig. 3 is a plan view of the said broom-head, showing the same open, and the broom mounted therein. Fig. 4 is a horizontal longitudinal section on the line 4—4, Fig. 2. Fig. 5 is a vertical cross section on the line 5—5, Fig. 1, and Fig. 6 is a perspective view of the broom used in my broomhead.

In the drawings, like characters of reference refer to the same parts.

A is the broomhead, and the same is made of metal of the desired gage, though it may be cast, and the same comprises a bottom plate B, provided with a flange C projecting beyond the inner side of said plate. Transversely of the head A is positioned a plate D substantially of the same width or depth as the flange C, and suitably secured to said flange. Suitable bracing plates E are positioned within said head A, and extend from the plate D to the portion C′ of the flange C. F is a plate suitably secured to the flange C, so as to encase bracing plates E and D in the upper portion of the head A.

The plate D and the portion C′ of the flange C are provided with holes *a* and *b* through which passes the handle G. Any suitable means such as a screw H may be held in the plate F and screw into the handle G so as to prevent the accidental withdrawal of this handle.

Sufficient has been set forth to show that in case the handle G be broken, the same may be readily removed from the head A and replaced.

That portion of the bottom plate B and the adjacent portions of the flange C extending to the right of the plate D in Fig. 4, constitute a fixed jaw member, and co-acting with this jaw member is a movable jaw member I, which is hinged to the plate F as shown at J.

The broom 2 may be constructed as is common in the art, though before it can be mounted in the head A, it must be properly shaped. Now I secure to the inner end 3 of the broom 2, by any suitable means such as glue, a cross-bar 4, and remove portions of said inner end at each side of the broom 2, so as to form pockets 5 adjacent the cross-bar 4. When the broom 2 is placed upon the bottom plate B, the ends 6 of the cross-bar 4 pass between pins 7 carried by the flange C at each end of the plate D and said plate D, so that said pins, when said broom is positioned, will be located within the pockets 5. 8 are prongs or spurs carried by the bottom plate D so that when the broom 2 is positioned, these prongs or spurs will penetrate the same, and assist in holding same from displacement. 9 is a prong or spur carried by the jaw-member I, and also designed to penetrate the broom 2 when said jaw-member is closed. The means described or the equivalent thereof, it is abundantly clear, will prevent the accidental withdrawal of the broom 2 from said head A.

10 are ears carried by the jaw-member I, and the same are designed to overlap portions of the flange C when said jaw-member is closed. Screws 11 or other suitable removable fastening means are passed through the ears 10 and through holes 12 formed in the flange C, and penetrate each side of the broom 2 and so lock the jaw-member I closed. To reduce the cost of manufacturing the broom 2, the broom corn composing the same may be bound together at the inner end of the broom by any suitable fabric 13

such as cotton or linen, in place of sewing the broom corn, and the cross-bar 4 connected to the said inner end 3, will positively prevent distortion of the broom 2.

Various changes in construction may be made without departing from the spirit of my invention.

What I claim is,

The combination of a broom-head comprising a plate provided with side flanges which together form the fixed member of a jaw; a movable jaw-member hinged to said head; a pair of alined pins carried by said flanges and spaced apart from said plate; a broom provided with pockets formed one at each side near its inner end; a cross-bar secured to the inner end of said broom and having its ends overlapping said pockets; the inner end of said broom designed to be placed within said fixed jaw-member so that said pins will occupy the pockets formed in said broom; prongs carried by said jaw-members designed to penetrate said broom to hold the same from displacement, and means whereby said fixed jaw-member is held closed.

WILLIAM HENRY FORESTER.

Witnesses:
W. R. Sexsmith,
E. R. Moffat.