

W. J. HOPE.
BROOM HOLDER.
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1,049,238.

Patented Dec. 31, 1912.

Fig. 1.

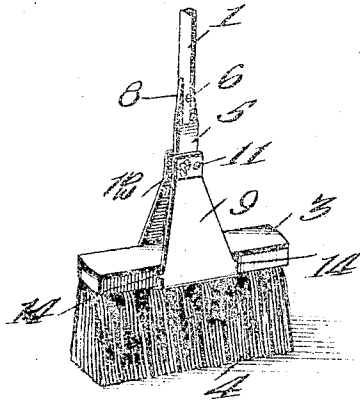


Fig. 2.

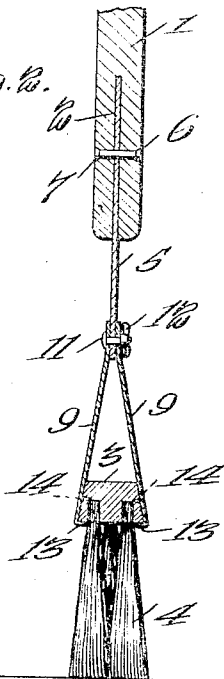
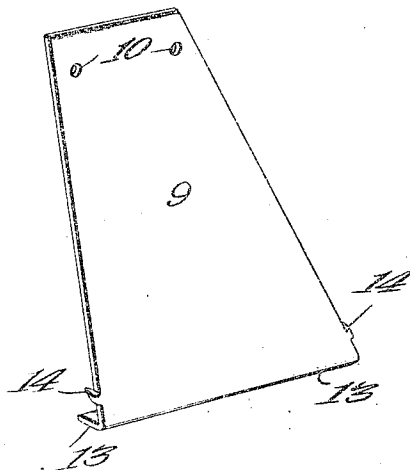


Fig. 3.



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BROOM-HOLDER.

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To all whom it may concern:

Be it known that I, WILLIAM JAMES HOPE, a citizen of the United States, and a resident of Tunica, in the county of Tunica and State of Mississippi, have invented certain new and useful Improvements in Broom-Holders, of which the following is a specification.

My invention is an improvement in broom holders, and has for its object, a simple and efficient means for connecting a broom to a handle, in such manner that a considerable degree of resiliency is permitted between the broom and the handle, and wherein the clamping means may be adjusted for brooms of various sizes, and wherein the handle may take a position at an angle with respect to the body, and wherein a positive gripping means is provided in connection with the clamping means.

In the drawings:—Figure 1 is a perspective view of the improved connecting means; Fig. 2 is a vertical transverse section; and, Fig. 3 is a perspective view of one of the clamping members.

In the present embodiment of the invention, the handle 1 may be of any usual or preferred construction, and the said handle is provided at its lower end with a transverse longitudinal slot or recess 2.

The broom proper may be of any desired or preferred construction, in the present instance consisting of a head or holder 3 for carrying the bristles 4. A resilient plate 5 has one of its ends inserted in the slot 2, and a rivet 6 is passed transversely of the slot and the plate for holding the plate in place. The rivet is headed at both ends, as shown at 7, the heads being preferably flush with the surface of the handle, as shown. The plate is also beveled at each of its side edges adjacent to the handle, as shown at 8, in order that there may be no projecting corners or the like between the plate and the handle. The means for connecting the plate to the broom body comprises a pair of clamping plates 9, each of which is of lesser width at one end than at the other, and the narrow end is provided with a plurality of openings 10. The plate 5 is provided with openings registering with the openings 10, and bolts 11 are passed through the registering openings, and are engaged by wing nuts 12 on the opposite side.

It will be understood that a plate 9 is arranged on each side of that end of the plate

5 remote from the handle, and that each bolt 11 is passed through the 2 plates and the plate 5. The bolts 11 are preferably oppositely arranged, as shown more particularly in Fig. 1, so that a nut 12 is on each side of the handle.

Each of the plates 9 is provided at its wide end with a lateral inwardly extending flange 13, and adjacent to the flange each side edge of each plate is provided with an inwardly extending spur 14.

The plates 9 grasp the opposite sides of the body 3, with the flanges 13 fitting the under face of the body, and extending to a point adjacent to the bristles. The spurs 14 are received in the material of the body, as shown in Fig. 2, so that the brush is firmly grasped by the plates.

In operation, when it is desired to remove a broom body, the nuts 12 are loosened and the plates 9 are sprung out away from each other and from the body to release the spurs 14. A new body is then inserted and the plates are then forced together by the nuts.

The improved clamping means will hold brooms of different size. As ordinarily constructed, they may be made to hold brooms ranging from one-half inch in thickness to three inches. The broom cannot be slipped upwardly on account of the convergence of the plates 9 at their upper end, neither can it slip downward on account of the flanges 13. Longitudinal movement of the broom is prevented by the spurs 14. The plates 9 are sufficiently resilient to grip a broom tightly, and to prevent movement of the same. The holding of the broom is not dependent altogether upon friction, but a positive grip is provided by reason of the spurs.

The clamping device being of two pieces is capable of a greater range of adjustment than were it of one piece, and any looseness of play may be taken up by the nuts. In addition the broom may take a position at an angle to the handle, thus insuring that the wear on the bristles will be even and uniform and not at one side, as in the ordinary form of broom. The broom may be arranged in this manner in the clamping device if desired, by changing the engaging position of the spurs 14. The device is thus not only a clamping device but also an adjusting device.

The holding means may also be utilized to hold a mop or the like, and the grip is always a positive grip and not dependent

on friction. The device is economical both in first cost, and up-keep, since there is practically no wear and no liability of any of the parts getting out of order. One handle
5 and one clamping device may be used with a number of brooms.

I claim:—

A device of the character specified, comprising a resilient plate having near one
10 end an opening, and having at the other end a pair of laterally spaced openings, a pair of clamping plates each having at one end a pair of openings adapted to register

with the openings of the first-named plate, said clamping plates being arranged on opposite sides of the first-named plate, bolts
15 passing through the registering openings, and nuts engaging the bolts, each clamping plate having at the end remote from the openings a lateral inwardly extending
20 flange.

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Witnesses:

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