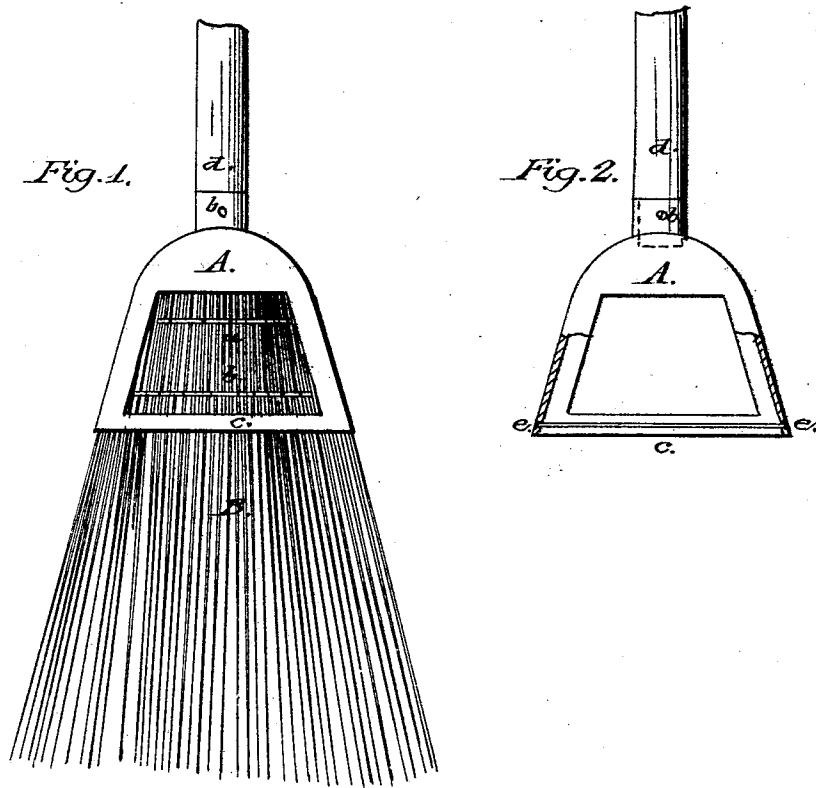


W. A. Middleton,

Broom Head.

No. 101,901.

Patented Apr. 12. 1870.



WITNESSES:

R. Fleming
Wm. Patton

INVENTOR:

William A. Middleton

United States Patent Office.

WILLIAM A. MIDDLETON, OF HARRISBURG, PENNSYLVANIA.

Letters Patent No. 101,901, dated April 12, 1870.

IMPROVED BROOM-HEAD.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, WILLIAM A. MIDDLETON, of the city of Harrisburg, county of Dauphin and State of Pennsylvania, have invented a new and useful Improvement in "Broom-Heads;" and I do hereby declare the following to be a full, clear, and exact description of the same, reference being made to the accompanying drawing and the letters of reference marked thereon.

In the construction of metallic broom-heads heretofore, two great defects exist; first, the frame, if made of cast metal, is, from its manner of construction, rendered heavy and unwieldy, and from the clamps and bolts used to secure the brush therein, rendered liable to deface furniture, and tear the clothes of the person using the same. Again, if made of sheet metal, they are flimsy and break easily, so that nothing is gained by their use, they never lasting longer than the brush with which they are filled. To overcome these defects, and produce a simple, practical broom-head that can be constructed of durable material, and at the same time be very light, hold the brush perfectly secure, and last for an indefinite period, is the object of my present invention. I construct my improved "broom-head," as follows:

I provide a cast metallic head, formed as is shown at A in Figures 1 and 2 of the drawing.

This head is made skeleton in form, that is, the sides are cut away, as shown, for the purpose of lightening it, and also for another purpose that will be described hereafter.

Cutting away the head, as will be seen, leaves two bars or ribs stand at the lower portion on each side of it, as shown at c in the drawing.

A ferrule or socket to receive the handle is provided at the top of the head; a screw, s, serves to retain the handle securely in place.

I do not intend here to make special claim to this method of constructing the skeleton head A, as it is the same in form as is shown in my patent "broom-head" patented July 31, 1866, and numbered 56,859, with this exception, that I now insert a wire stay-rod or brace, *ee*, see fig. 2, in the lower part of the head, centrally between the bars *cc* of the same. This stay-rod *ee* is intended to aid in securing the brush firmly in place. It accomplishes said purpose in this manner:

The head is filled with brush, it being forced down between the inside of the bars *cc* and the rod *ee*, the ends being covered by the upper portion of the head, as shown in fig. 1. The brush is now sewed or stitched across from edge to edge of the skeleton sides, as seen in fig. 1. A sufficient number of rows of stitching is made use of to perfectly secure the brush.

It is evident that this method of construction will prevent any of the brush from coming loose, as the stitching above the stay-rod *ee* forms a secure lock, and at the same time presents no obstruction to deface furniture or tear the dress of the operator.

Having given a full, clear, and exact description of my invention, and set forth its merits and peculiar excellence,

What I claim as new, of my invention, and desire to secure by Letters Patent of the United States, is—

The use of the stay-rod *ee*, in combination with the skeleton head A, and rows of stitching *ab*, in the brush B, as and for the purpose herein set forth and described.

WILLIAM A. MIDDLETON. [L. S.]

Witnesses:

R. J. FLEMING,
WM. P. PATTON.