

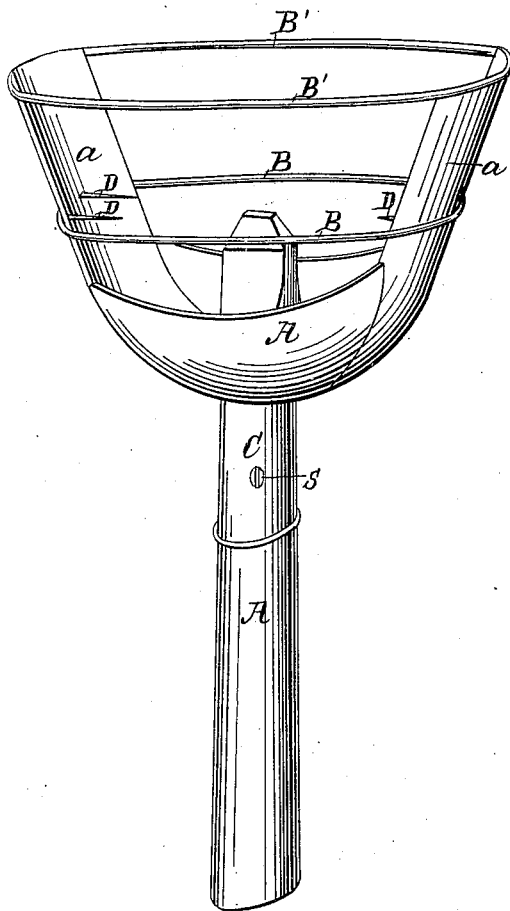
J. E. SHORT.

Broom Head.

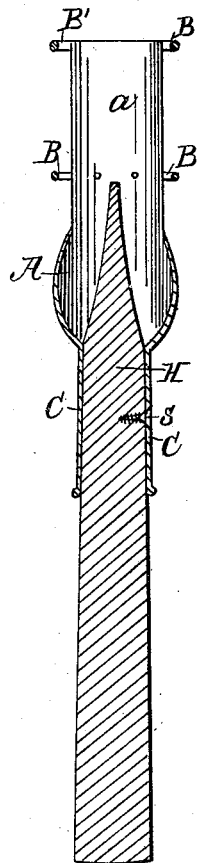
No. 52,330.

Patented Jan'y 30, 1866.

*Fig. 1.*



*Fig. 2.*



Witnesses:  
D. J. Nichols  
W. B. Clayton.

Inventor.  
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by  
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# UNITED STATES PATENT OFFICE.

JOHN E. SHORT, OF NEW RICHMOND, OHIO.

## BROOM-HEAD.

Specification forming part of Letters Patent No. 52,330, dated January 30, 1866.

*To all whom it may concern:*

Be it known that I, JOHN E. SHORT, of New Richmond, county of Clermont, in the State of Ohio, have invented a new and Improved Mode of Constructing Broom-Heads; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference thereon marked.

In the drawings, Figure 1 is a perspective view.

The nature of my invention consists in the mode hereinafter described of constructing a good, light, and cheap broom-head adapted to the use of farmers and others who make their own brooms; and also in the mode of securing and putting in the brush in the said broom-head.

In the drawings, A represents the curved and concave piece of metal which constitutes the "head" and gives the shape and finish to the top of the broom. This piece may be made of double tin or galvanized sheet-iron, stamped rather than cast into the desired form.

B and B' are out wires crossing the side pieces, *a*, of the head A, to which they are soldered or fastened. In broom-heads of small size the wires B should be about two inches below the bottom edge of the head A, and the wires B' should be about an inch and a half below the wires B. These wires should be of heavy galvanized-iron wire, because they surround the broom, and are required to be quite strong in order to retain the straw or brush which is sewed to them; and they also brace and strengthen the side pieces, *a*, around which they pass.

C is the sheet-metal socket firmly secured to the top of the broom-head. H is the handle, which is inserted in the socket and secured by a screw, *s*. The lower end of the handle is wedge-shaped, so that when forced down into the straw, corn, or brush it will be made to fit more tightly in the head.

D D are sharp wire points, arranged in pairs upon the inside of the side pieces, *a*, and they serve to secure the brush in the head.

In making a broom with this broom-head it will be found best to boil the corn, brush, or straw, so that while soft a larger quantity of

it may be packed in the same space, and that when cold and dry the brush will swell and fit the broom-head more tightly.

In making a broom I first insert a layer of brush between the wires B B' up into the head A as far as possible. I then fill in the brush toward the middle from each side, beginning at the points D D, so as to get the brush well settled around them, and letting this brush extend about an inch and a half above the wires B, but not entering the head A. I then enter a smooth outside layer of brush, like the first layer, close up into the head A, forcing it in as tightly as possible. I then take suitable twine (or wire) and sew through the brush to and around the wires B. The handle H is then forced down through the socket C and secured by screw *s*, so that the thickest part of its wedge point shall come between the wires B, so as to force the brush to fit very tightly between them, and so that the said wires shall serve to steady the handle and relieve the socket from a part of the strain upon it in using it.

It will be found when the brush dries that the broom thus constructed by even an inexperienced person is as light, firm, and good a broom as any that can be purchased. When the brush wears out it can be removed, and the same head and handle can be used for as many other brooms as may be desired.

The lightness of my broom-head, owing to its mode of construction out of stamped or wrought metal, is a great advantage not possessed by any renewable broom-head known to me, for I can make a broom-head for medium-sized brooms which will weigh only five or six ounces.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

Constructing a broom-head out of sheet metal and wire, in the manner described, by the specified construction and arrangement of the head A, wires B B', pins D, socket C, and handle H, for the purposes set forth.

JOHN E. SHORT.

Witnesses:

R. N. DONHAM,  
P. J. DONHAM.