

W. P. Brooks
Broom Head.

Nº 60,615.

Patented Dec. 18, 1866.

Fig 1.

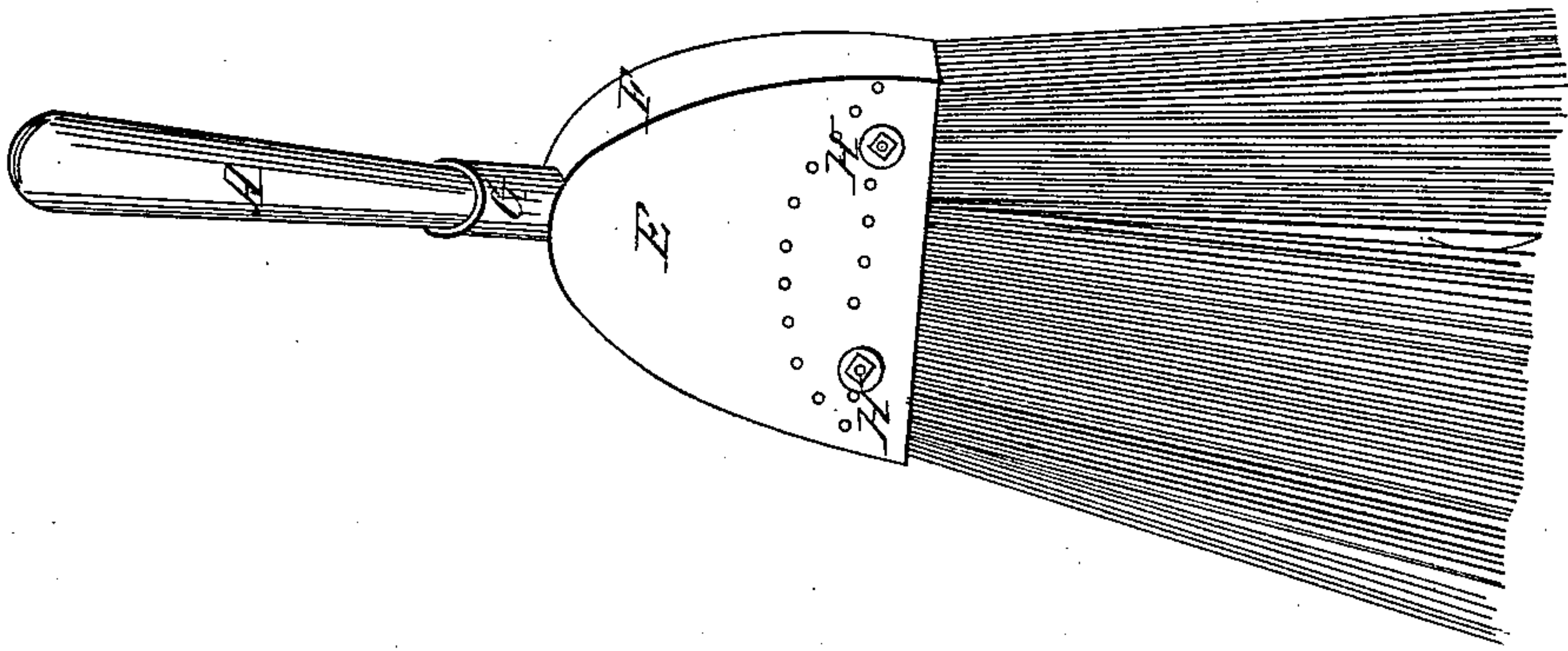


Fig 2.

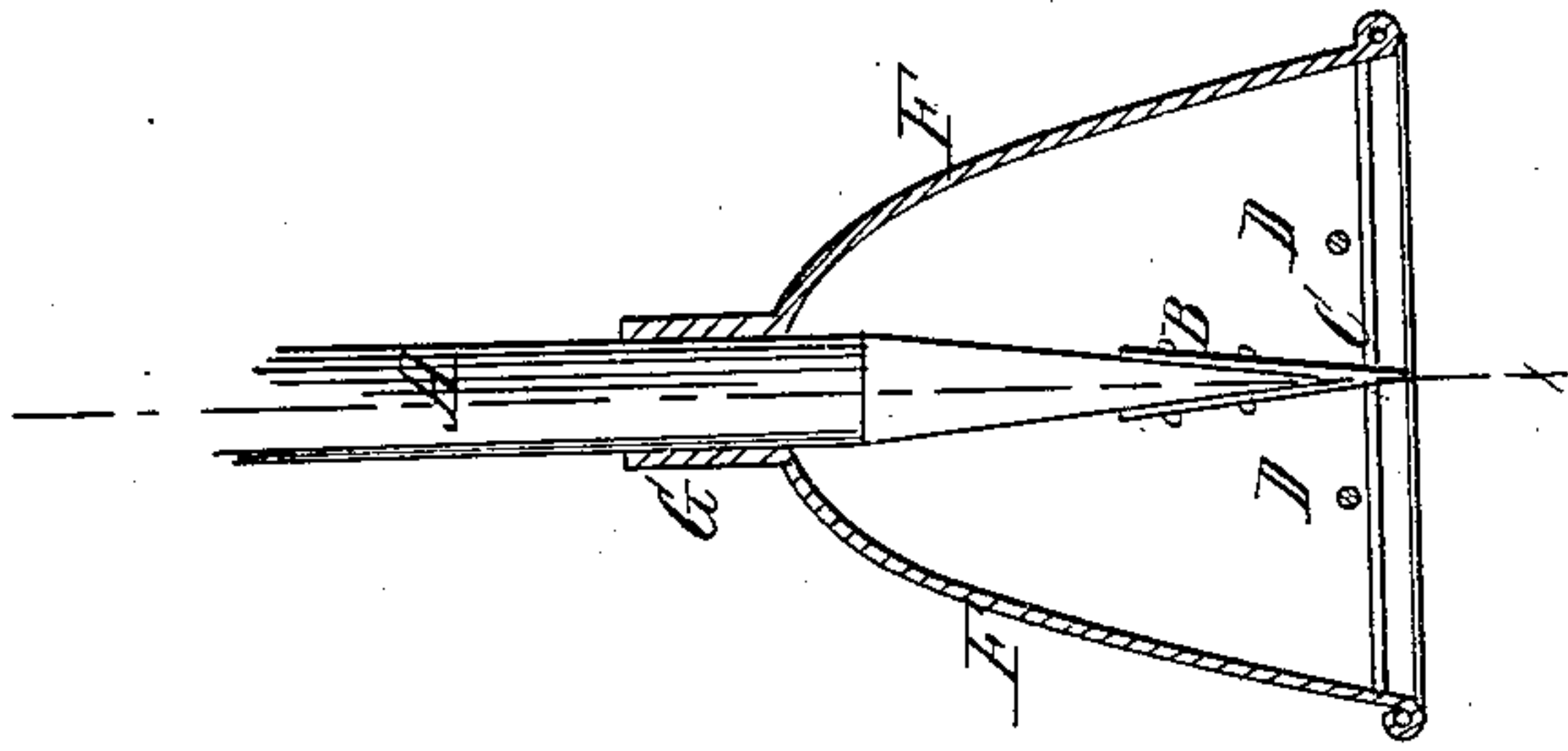


Fig 3

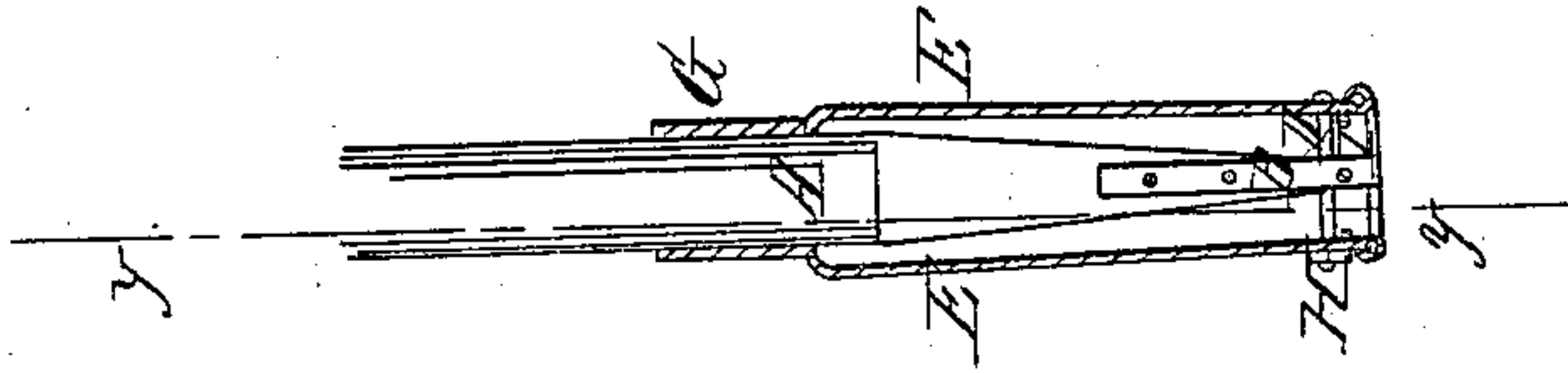
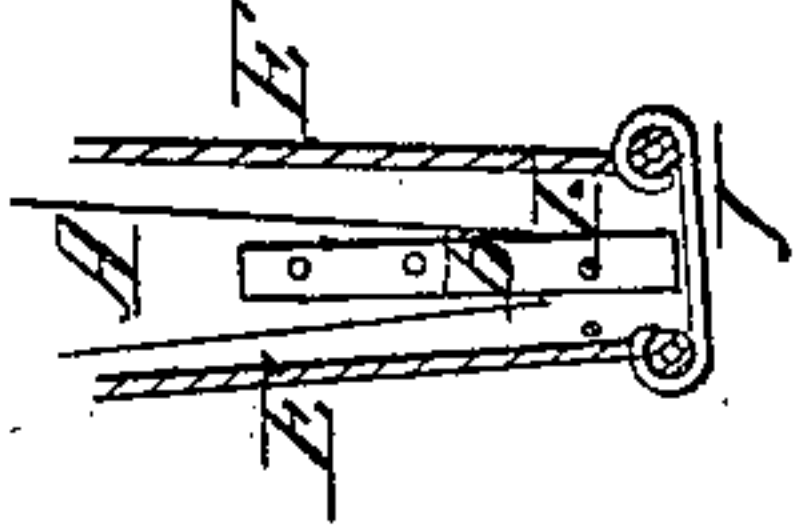


Fig 4



Witnesses
Wm Brown
F A Jackson

Inventor,
W P Brooks
Per Munnings
Attorney

United States Patent Office.

IMPROVED BROOM HEAD.

WILLARD P. BROOKS, OF FAIRMOUNT, MINNESOTA, ASSIGNOR TO HIMSELF
AND F. B. CRIPPEN, OF THE SAME PLACE.

Letters Patent No. 60,615, dated December 18, 1866.

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, WILLARD P. BROOKS, of Fairmount, in the county of Martin, and State of Minnesota, have invented a new and useful Improvement in Brooms; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of my improved broom.

Figure 2 is a vertical longitudinal section, through the line *y y*, fig. 3.

Figure 3 is a vertical cross-section, through the line *x x*, fig. 2.

Figure 4 is a vertical cross-section, similar to fig. 3, illustrating a modification of my invention, in which the bolts and nuts are replaced by wire hooks.

Similar letters of reference indicate like parts.

The object of this invention is to furnish a socket for holding the brush of a broom securely in place, and it consists in the construction of the socket and the arrangements for holding the brush and handle, as hereinafter more fully described. A is the handle, which is made in the usual form, except that the point or end of the handle that enters the socket is made wedge-shaped, as shown in the drawings. To the sides of the wedge-shaped ends of said handle is attached a metallic point or ending, B, as shown. This piece B may be cast, or it may be made of a strip of sheet metal, doubled over upon itself, as shown. The arms or sides of this piece B may be attached to the handle by screws, bolts, nails, or rivets, as may be desired. Through the wedge-shaped ends of the piece B is passed a rod, C, which passes below the bolts D. If, now, any effort is made to withdraw the handle A from the socket, the only effect is to draw the rod C more firmly against the bolts D, and the said handle cannot be withdrawn without breaking the rod C, or some other of the parts. The side plates, E, of the socket are made in the usual form and manner. They may be flat, as represented in the drawings, or they may be struck up, so as to bulge, or be slightly convex on the outside, if desired. They may also be perforated, for ventilating the upper part of the brush. The edge piece, F, may be made in one piece, with a hole cut through for the passage of the handle. The side plates, E, and the edge piece, F, are soldered together in the ordinary manner. Around the hole in the edge plate F, for the passage of the handle, is soldered a band, G, which supports the handle, and prevents its being worn by the edge of the hole through the edge piece F. The mouth of the socket is stiffened by having the edges of the side and edge plates turned over a wire in the ordinary manner, as shown in the figs. 2, 3, and 4. Along the inner surface of the side plates E, near their lower edges, are soldered wires, I, one or more on each plate, to enable the side plates to take a firmer hold upon the inserted brush. The side plates are drawn together, clamping the brush between them, by the bolts D and nuts H passing through said plates and the intervening brush, as shown in the drawings. By screwing up the nuts, the side plates are drawn towards each other, pressing the wires into the brush, and clamping it between the said plates. The bolts D may be replaced by wire hooks, J, hooked over the edges of the side plates E, as shown in fig. 4, but we prefer the manner first described, as holding the brush more firmly. When the bolts D are replaced by the wire hooks J, the ends of the rod C must be secured to the edge plate F; this may be done by passing the ends of the said rod through the said plate, and then riveting or bending them down thereon, or by soldering them on the outside of said plate.

I claim as new, and desire to secure by Letters Patent—

The combination of the metallic point or piece B, the rod C, bolts D, or equivalent, and the wires I, with each other, and with the handle A, and socket E F, when said point, rod, bolts, and wires are constructed and arranged substantially as herein described, and for the purposes set forth.

WILLARD P. BROOKS.

Witnesses:

ROLLIN WOOD,
S. A. YORK.