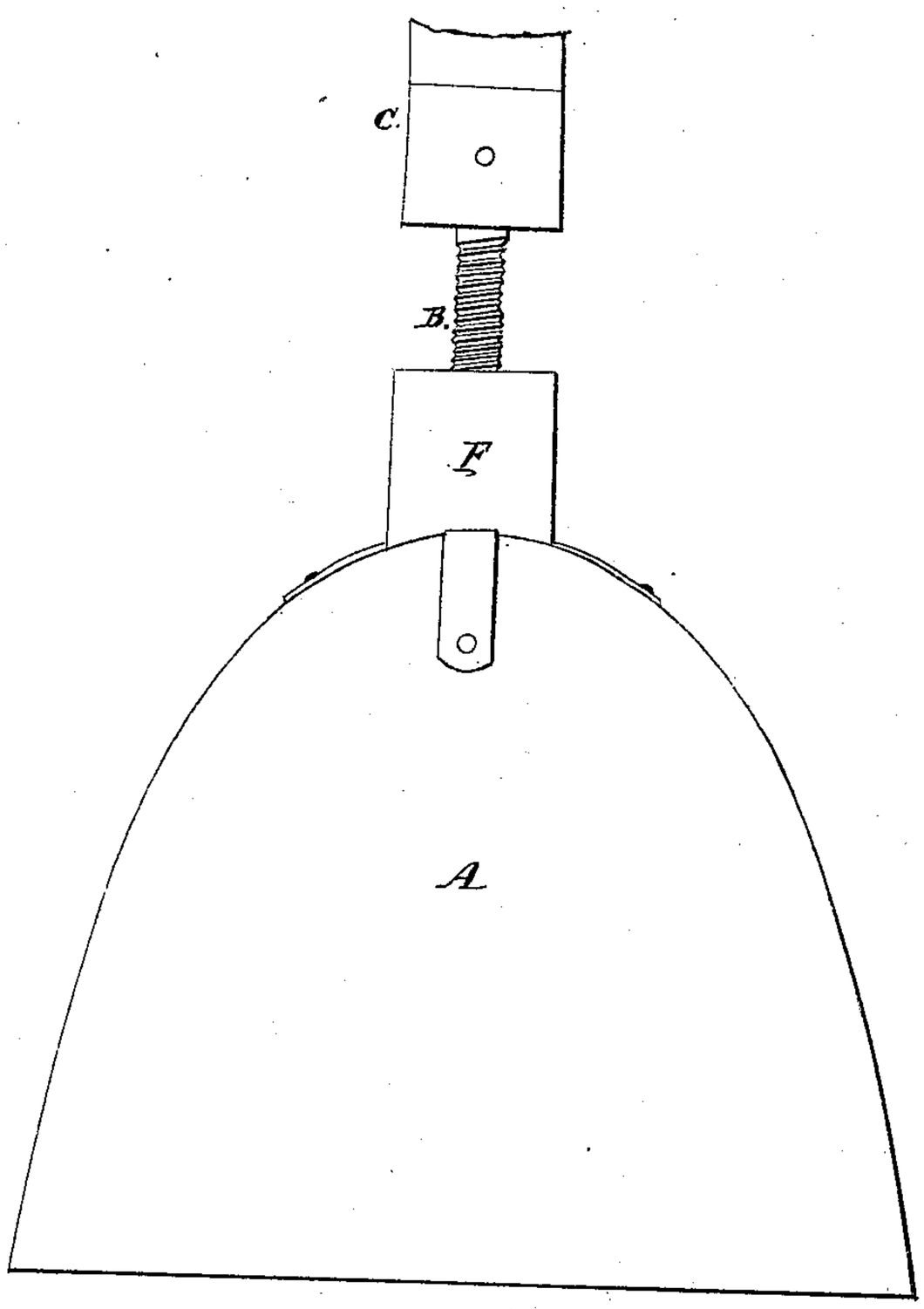
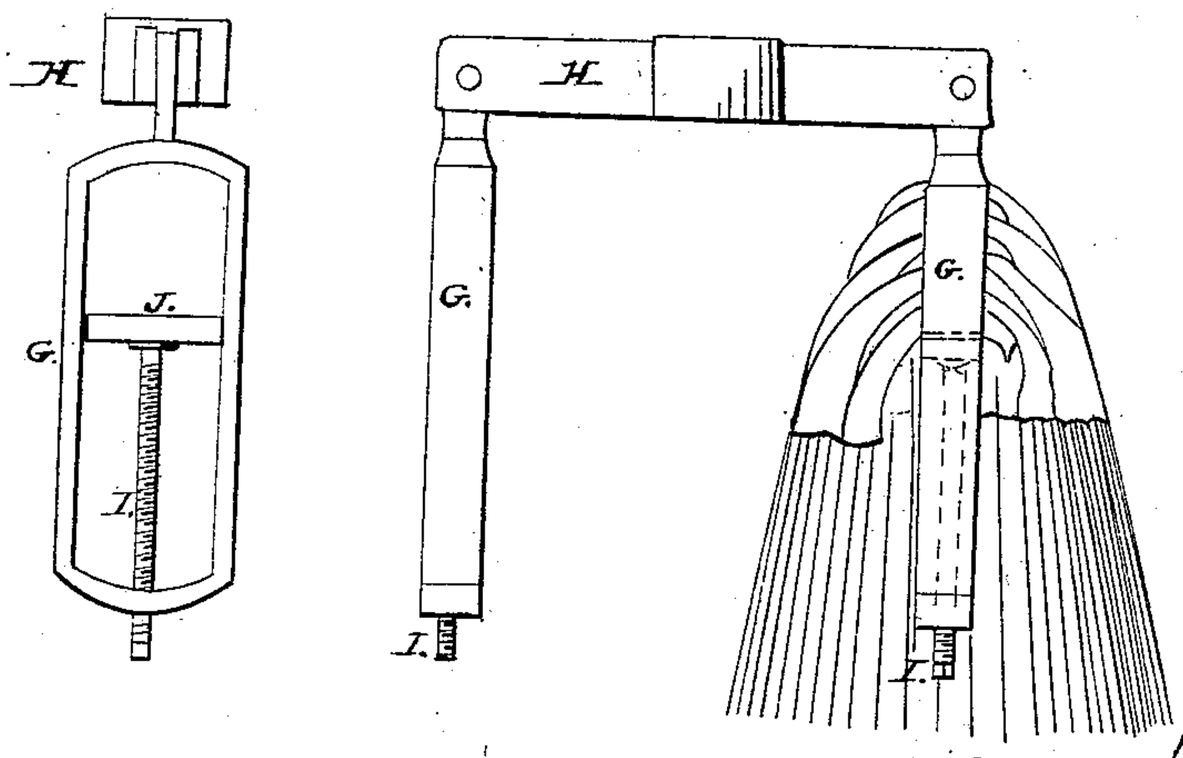
L. S. SMITH.

Broom Head.

No. 71,238. Patented Nov. 19, 1867.





WITNESSES:

W. M. Dennis

Chas. H. Goodaway

INVENTOR:

Levi S. Smith

By his Attorney

J. Dennis

United States Patent Office.

LEVI S. SMITH, OF GORSUCH'S MILLS, MARYLAND, ASSIGNOR TO HIMSELF AND JOSEPH V. WINEMILLER, OF SAME PLACE.

Letters Patent No. 71,238, *dated November* 19, 1867.

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, LEVI S. SMITH, of Gorsuch's Mills, Baltimore county, State of Maryland, have invented certain new and useful Improvements in Broom-Heads for connecting the fibrous material to the handle; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

The nature of my invention and improvements consists in two links, connected by a cross-head, by means of which the broom material is drawn into said socket by a screw fastened in the end of the handle, and passing through the cap or socket into said cross-head, the material being secured in the links by screw-clamps. By this arrangement and these devices the different parts of the broom are secured together, and the material firmly held, while the whole may be taken apart by unscrewing, and new or a different material inserted with the greatest facility.

In the following description of my improvements, the accompanying drawings, making part of this specification, are referred to:

Figure 1 is a broadside view of the exterior.

Figure 2 is a view of the links and cross-head in a corresponding position; and

Figure 3 is an end view of the same, showing one of the screw-clamps.

A is a hollow cap or socket, of sheet metal or other suitable material, and B a strong screw passing down into the cap A, and having its upper end fastened to the end of the handle C. G G are two links, connected by the cross-head H, into which the screw B is screwed by turning the handle C. Each link is provided with a screw, I, working in the lower end of the link, and forcing up the clamping-block J, (seen in fig. 3,) to compress and secure the broom material placed in the link above it.

The broom material being passed through the links, so that the ends or middle, according to the character of it, may be in the link, the screw I is turned, to force up the block J, and compress and secure the material in its place, and when the links have been thus sufficiently charged, the cross-head is raised into the cap A, to meet the screw B, when, by turning the handle C, the material secured in the links is drawn up into the cap so as to be firmly held by it, and the end of the handle C is at the same time drawn down into the ferrule or socket F, fastened to the top of the cap A, thus forming a firm connection of the handle with the cap.

When from wear or other cause it becomes desirable to introduce a new supply or a different material, it is obvious that, by simply reversing the above-described process, the old material may be readily removed, and then a new supply may be inserted, as before.

To make a round broom instead of a flat one, as here represented, two cross-heads, at right angles to each other, or a head with three or more radiating arms, may be employed.

Having described my improved broom-head, I claim—

The cap or socket A, in combination with the links G G, cross-head H, and screw B, substantially as described for the purpose set forth.

And, in combination with the links, I claim the clamping-blocks and screws.

LEVI S. SMITH.

Witnesses:

J. DENNIS, Jr.,

JAMES LAURENSON.