J. LAY.
Broom.

No. 208,685. Patented Oct. 8, 1878.

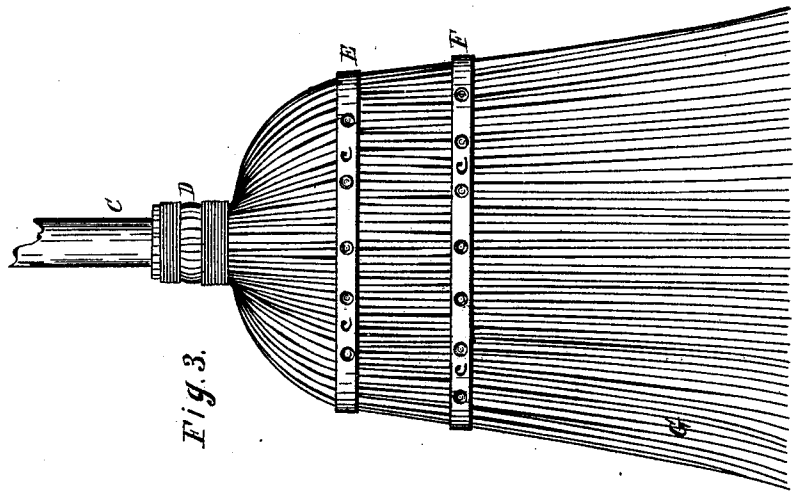


Fig. 3.

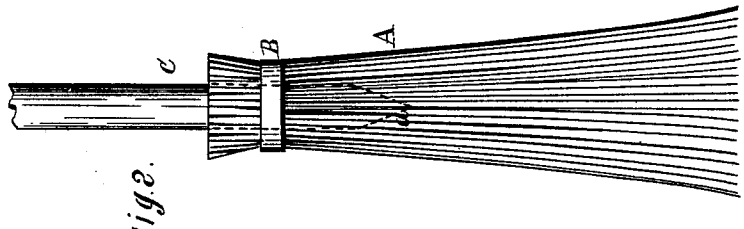


Fig. 2.

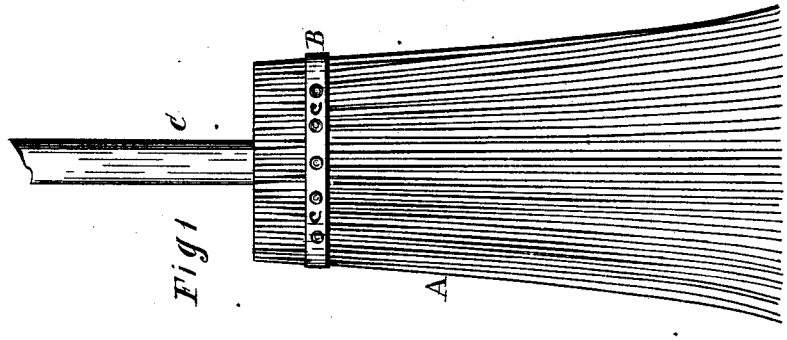


Fig 1

Witnesses.
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UNITED STATES PATENT OFFICE.

JOSEPH LAY, OF OLMSTED FALLS, OHIO.

IMPROVEMENT IN BROOMS.

Specification forming part of Letters Patent No. **208,685**, dated October 8, 1878; application filed April 19, 1878.

To all whom it may concern:

Be it known that I, JOSEPH LAY, of Olmsted Falls, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in the Construction of Brooms; and I do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawings, making a part of the same.

Figure 1 is a view of the broom partially made. Fig. 2 is an edge view of the same. Fig. 3 is a view of the broom completed.

Like letters of reference refer to like parts in the several views.

The nature of this invention relates to splint or brush brooms; and consists of a new and novel manner of constructing the broom from the splints—first, by forming a splint core or filling and securing the same to the handle (provided with a tapering or wedge-shaped end) by means of metal bands and nails or rivets, and surrounding said core by an external covering of splints secured to the handle, as herein shown, and to the core or filling of the broom by one or more metal bands with nails or rivets, substantially as hereinafter set forth, the same being an improvement on a broom for which a patent was issued to me the 20th day of February, 1877, No. 187,541.

I am aware that splint and brush brooms have been made and used; hence I claim the improvements in the construction of such brooms as set forth in the following description.

The splints used in the construction of the broom alluded to are cut from any suitable wood, hickory being preferred, and are about an eighth of an inch in width. A bunch of such splints (represented at A, Fig. 1) sufficient for a broom or the core or filling of a broom is taken and bound around near one end with a metal band, B. Said bunch or bundle, at this stage in the process of making the broom, is of a rounded form. Into the banded end of this bundle of splints or brush is inserted the handle C, provided with a pointed or wedge-shaped end, *a*, that it may freely enter the bundle beyond the band B, as shown in Fig. 2. The banded splints are now subjected to a pressure applied to the band, thereby compressing the two sides of the bundle into an oval form. This compression causes the band to bind the splints tightly together and firmly about the handle. Through the band is driven a nail, or its equivalent, into the handle from both sides; also through the band are driven nails or rivets into the splints to hold them and the band in shape, at the same time binding the several parts firmly together, as shown in Figs. 1 and 2.

This partially-made broom, forming a core or filling, is to be surrounded with a covering of splints. To this end the ends of a proper quantity of splints are bound around the handle at D, Fig. 3. The splints are then carefully adjusted down around the core or filling above described, and shown in Figs. 1 and 2. Said covering of splints, when properly arranged about the core, are firmly bound thereto by the bands E and F, which are slipped on over the handle and down around the broom below the band B of the core or filling, as shown in Fig. 3. Said bands may be more or less in number, as the size of the broom may require, and are secured to the broom by nails or rivets *c*, driven through the bands into the splints, the central nail of the upper band being driven into the handle, thereby completing the broom, as shown in Fig. 3, in which G represents the splint-covering.

The splints, as shown in the drawing, are of a uniform width throughout their entire length. This gives a strong, stiff broom for heavy sweeping. For lighter work the splints may be split to nearly half their length, rendering them more flexible, and therefore better adapted for light sweeping.

What I claim as my invention, and desire to secure by Letters Patent, is—

The herein-described improvement in brooms, consisting of the handle C, having its lower end tapered off, as shown, the core-band B, and one or more bands, E F, and nails *c*, securing the bands, splints, or brush to the handle, substantially in the manner as and for the purpose set forth.

JOSEPH LAY.

Witnesses:
W. H. BURRIDGE,
B. M. GRIGGS.