

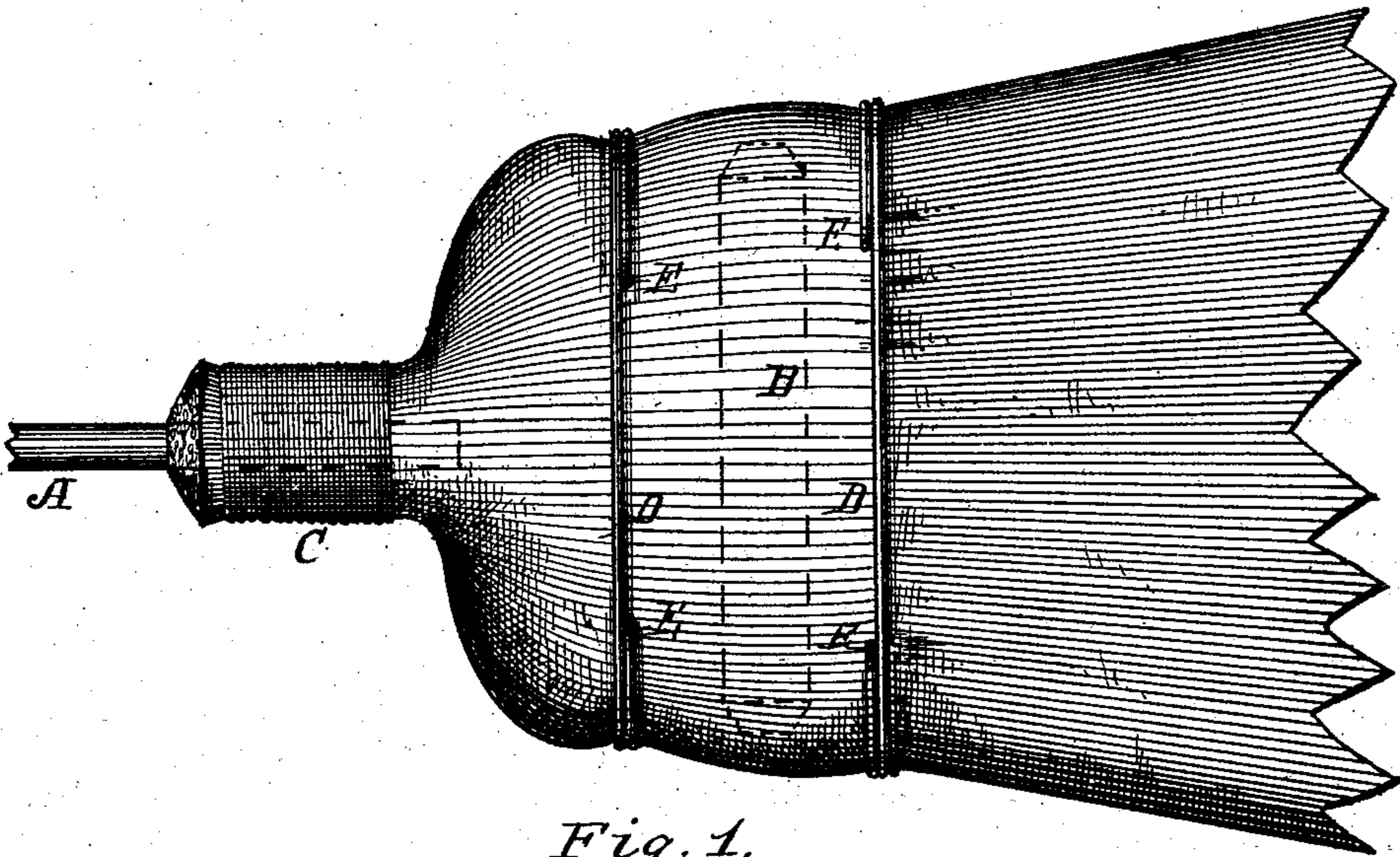
(No Model.)

S. P. FRALEY.

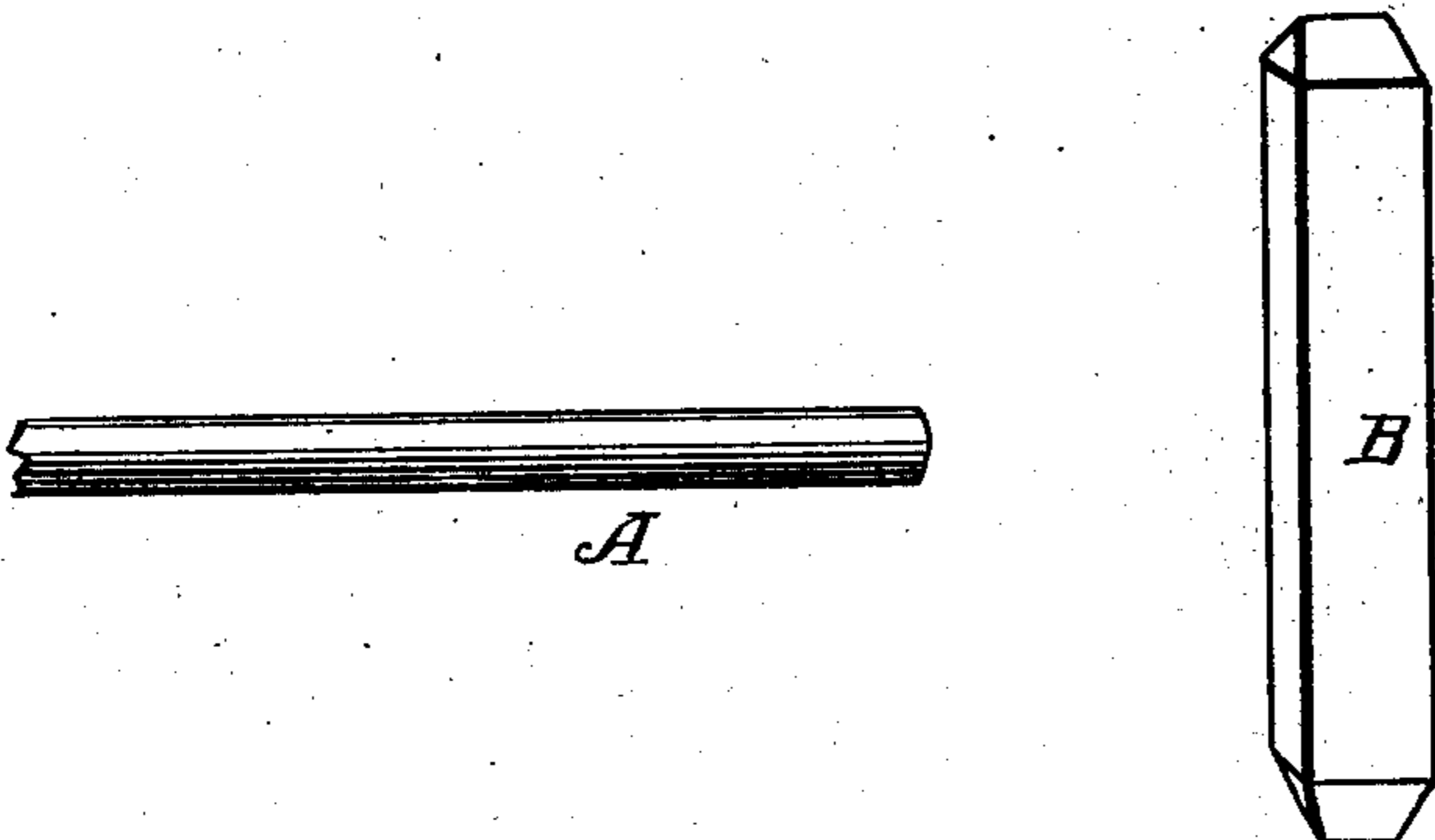
BROOM.

No. 248,031.

Patented Oct. 11, 1881.



*Fig. 1.*



*Fig. 2.*

Witnesses:  
J. Bailey  
O. J. Bailey

Inventor:  
Samuel P. Fraley  
by J. S. Perbe  
Atty.

# UNITED STATES PATENT OFFICE.

SAMUEL P. FRALEY, OF COLUMBUS, OHIO.

## BROOM.

SPECIFICATION forming part of Letters Patent No. 248,031, dated October 11, 1881.

Application filed January 10, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL P. FRALEY, of Columbus, in the county of Franklin and State of Ohio, have invented a new and useful Improvement in Wire-Bound Brooms, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a face view of the broom constructed with my improved stationary handle and method of binding, and Fig. 2 is a perspective view of the handle and cross-bar.

This invention is an improvement on Letters Patent No. 230,541, recently issued to me, and it provides for the application of the improvement therein described, which consists in securing layers of straw to opposite sides of a transverse bar by means of binding-wires, so as to adapt it to brooms having permanent handles.

In the Letters Patent formerly issued to me the broom is intended to be attached to removable handles, and the binding-wires were merely employed to hold together the layers of broom-brush, no provision being made for the handle.

In the present invention the design is to adapt said improvement to a permanent handle having a transverse bar between the binding-wires. To this end I provide the handle A and a transverse bar, B, independent of the handle. The layers of straw are then placed on the handle in the usual manner, so that the transverse bar B will reach that point where the stitches are usually made across the face of the broom. The upper ends of the broom-

brush C are then bound to the handle in the ordinary manner, and the binding-wires D E placed over the broom-brush from opposite sides instead of being stitched.

For certain classes of brooms it may be desirable to use only two binding-wires instead of four on each broom. In that case the transverse bar B can be left out entirely or located above the binding-wire; but where four binding-wires are used the bar is placed at a point midway between the wires, as shown in Fig. 1.

I am aware that it has been known in the art to which this appertains to construct the handle with a cross-piece; but this is no part of my present invention, since it will be observed that the transverse bar B is not secured to the handle in any manner, but is simply placed transversely between the layers of straw. I therefore disclaim the use, broadly, of a transverse bar.

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

In a broom, the layers of straw secured to the handle in the ordinary manner, in combination with an independent transverse bar disconnected from the handle, placed between the layers of straw, and bound by tie-wires, as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 29th day of December, 1880.

SAMUEL P. FRALEY.

Witnesses:

ED. S. BOVEY,  
J. A. BRIXNER.