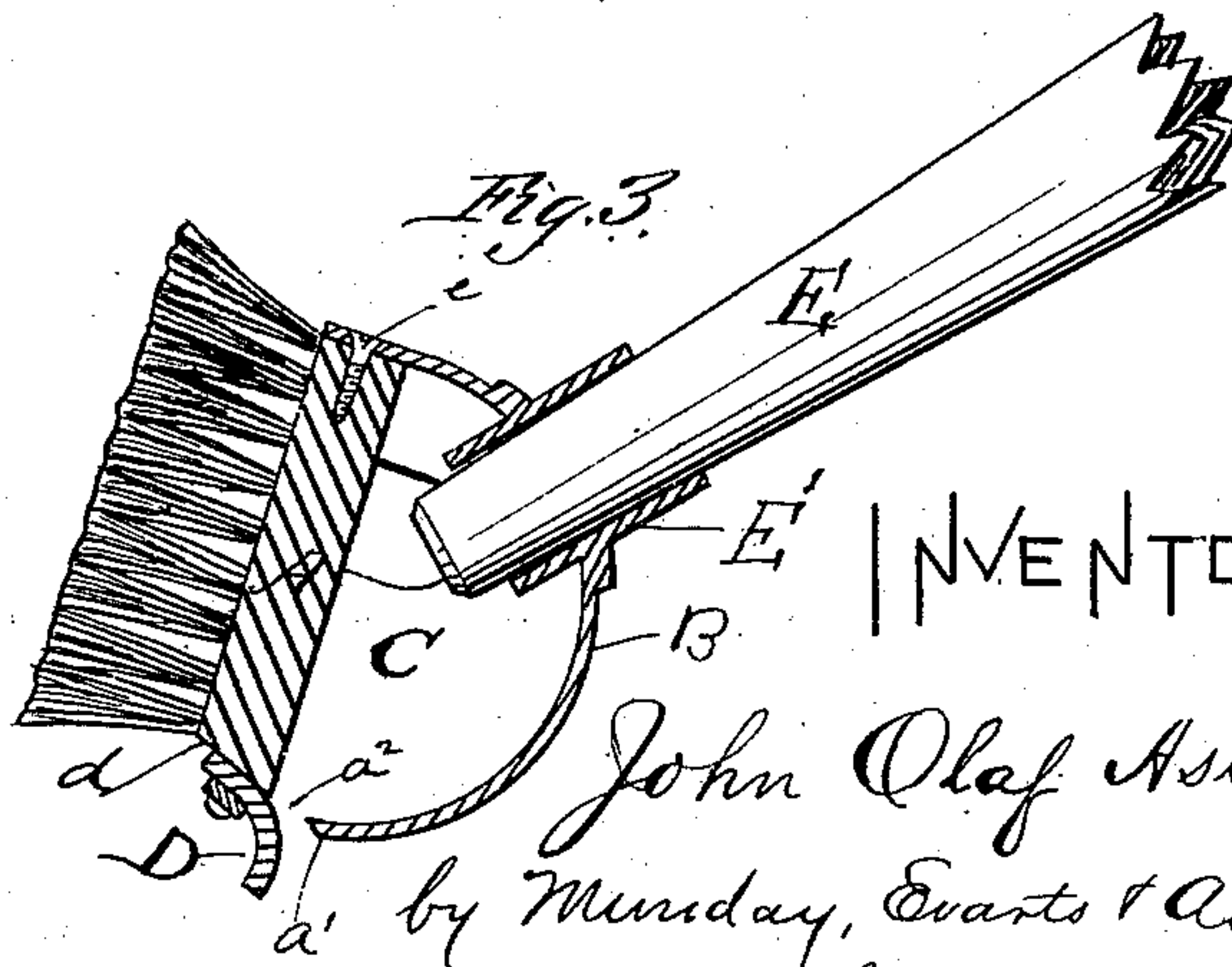
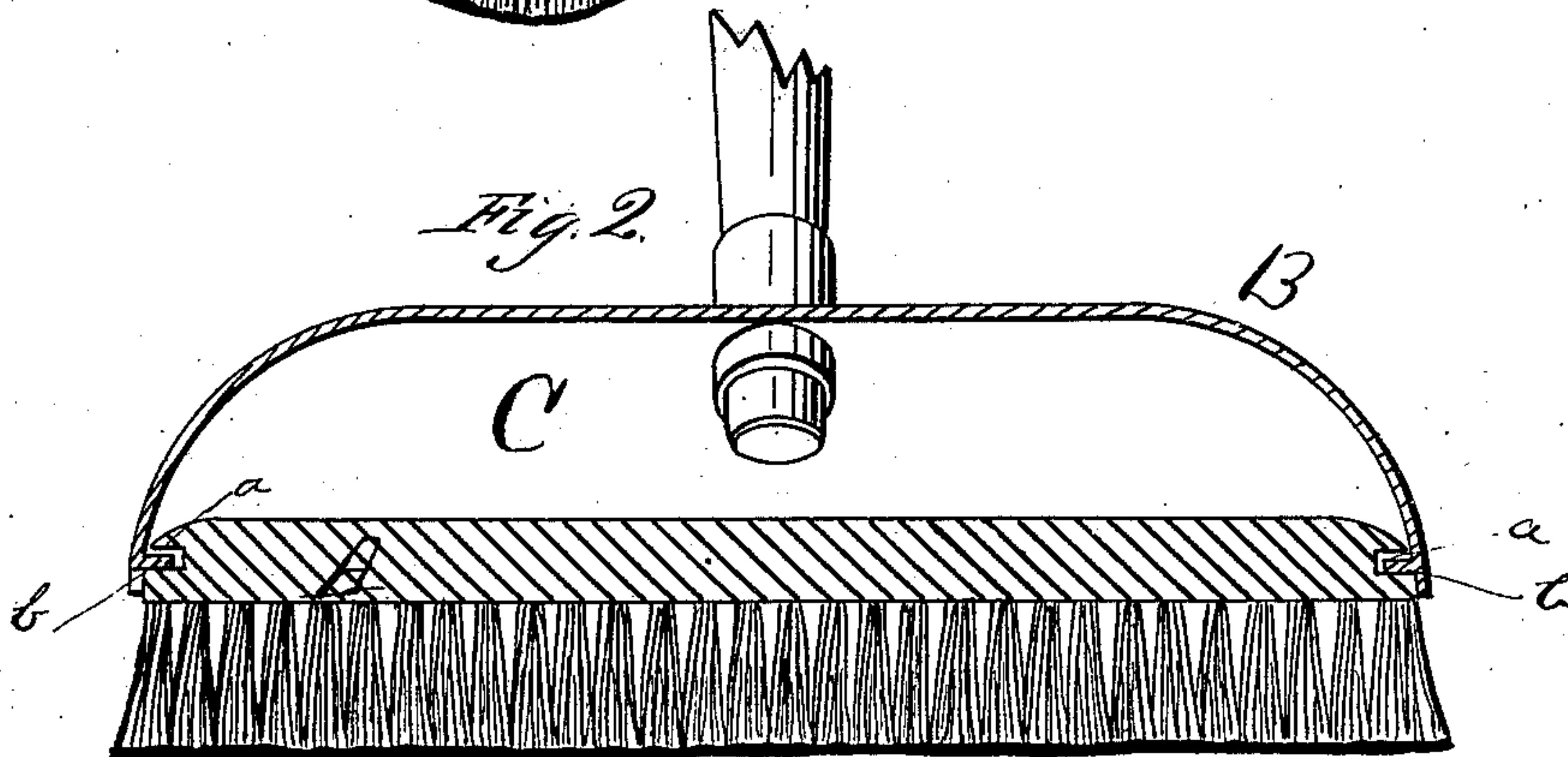
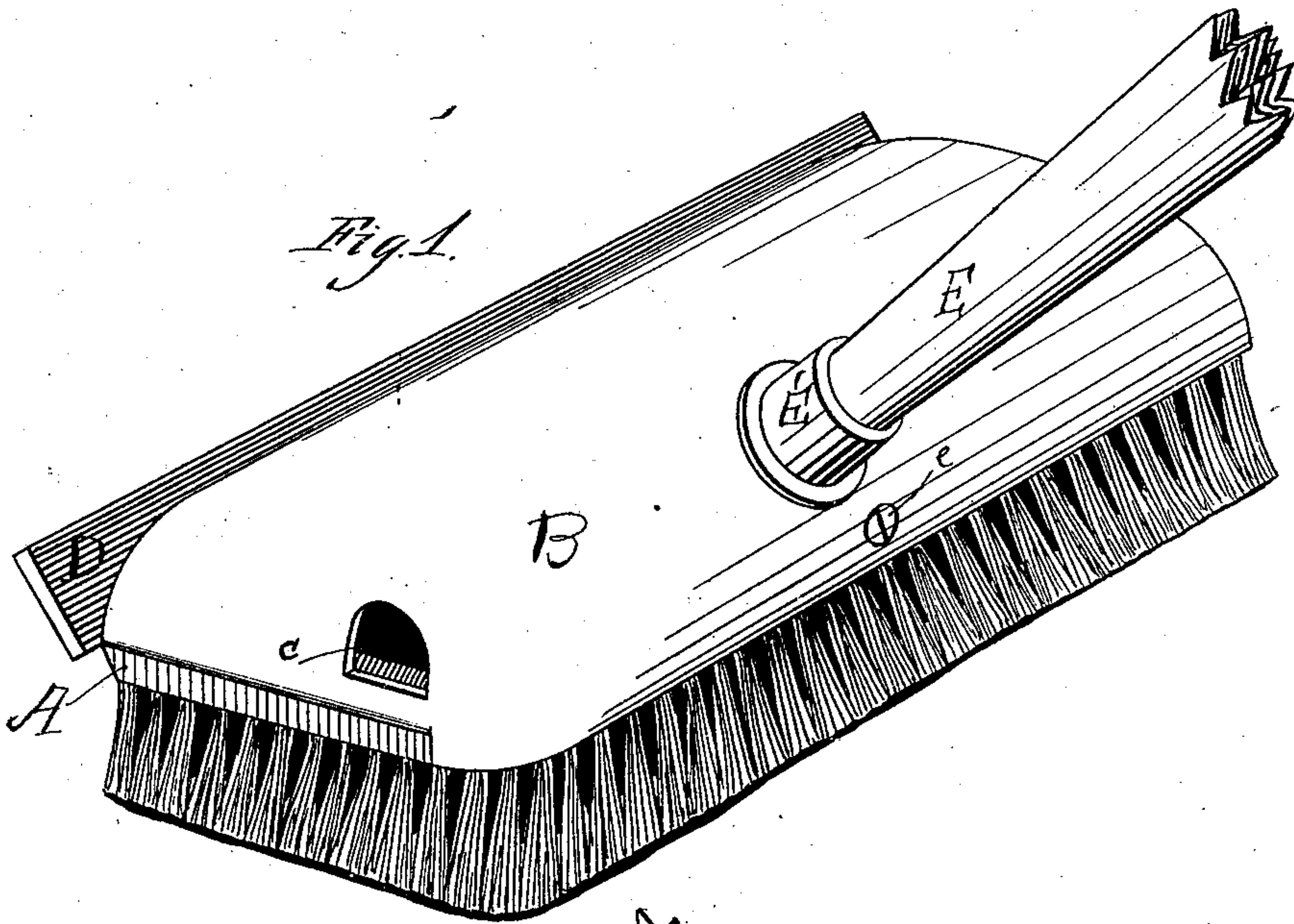


(No Model.)

J. O. ASTENIUS.
Scrubbing Brush.

No. 237,944.

Patented Feb. 22, 1881.



WITNESSES.

F. B. Townsend

J. M. Stevens,

INVENTOR.

John Olaf Astenius

by Munday, Evans & Adcock
his attys

UNITED STATES PATENT OFFICE.

JOHN O. ASTENIUS, OF CHICAGO, ILLINOIS.

SCRUBBING-BRUSH.

SPECIFICATION forming part of Letters Patent No. 237,944, dated February 22, 1881.

Application filed November 2, 1880. (No model.) Patented in Sweden, March 15, 1880, and in France March 10, 1880.

To all whom it may concern:

Be it known that I, JOHN OLAF ASTENIUS, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Scrubbing-Brushes, (for which I have obtained a patent in Sweden, No. 14, and bearing date at Stockholm, March 15, 1880, and in France, No. 121,008, and bearing date March 10, 1880,) of which the following is a specification.

My invention relates to improvements in combined scrubbing-brushes and mops; and the same consists in combining with an ordinary scrubbing-brush a sheet-metal reservoir and a rubber valve, in the manner hereinafter described, for the purpose of taking up the dirty water from the floor.

In the accompanying drawings, which form a part of this specification, Figure 1 is a perspective view of a device embodying my invention. Fig. 2 is a longitudinal section of the same, and Fig. 3 is a transverse section.

In said drawings similar letters indicate like parts.

A represents the brush, the back of which is made of wood, and provided with a groove, *a*, in each end.

B is the reservoir, which is preferably made of sheet metal, and is provided at each end with inturned flanges *b*, adapted to fit in the grooves *a*, for the purpose of securing the reservoir to the brush, forming a tight, or nearly tight, fitting joint, and the back of the reservoir extends down over the back edge of the brush, and the front edge of the reservoir is cut away, as shown at *a'*, so as to form a slit or opening, *a''*, into the chamber C, formed by the reservoir and the back of the brush. This opening *a''* is closed by a rubber strip or valve, D, attached to the beveled front edge, *d*, of the brush.

When the brush is used as a mop it is placed in the position shown in Fig. 3, and drawn forward by a quick motion; the rubber strip is pressed back by the forward motion of the brush, driving the water through the opening into the chamber, the rubber strip springing back and closing the opening the instant the

motion ceases, thus confining the water in chamber C, which is then poured out through the opening *c*, when the operation may be repeated.

E is the handle, which is secured in a suitable socket, E', in the top or rear portion of the reservoir. *e* is a screw for the purpose of securing the reservoir to the brush.

When the brush becomes worn out, a new brush may be readily and quickly substituted by taking out the screw *e*, and then slipping the old brush out.

The reservoir being very durable, the same one will serve for many brushes, and it has been one of the objects of my invention to provide a combined brush and reservoir wherein the brush could be readily and easily removed from the reservoir.

The brush itself I prefer to make of broom-straw, as it, I think, is the most suitable material for scrubbing, though it may be made of other materials.

The back of the brush being utilized as one side of the reservoir proper or chamber, C, my improved brush is very simple and cheap of construction; and the handle being fixed to the reservoir, which itself is secured in a very strong and rigid manner to the brush, having, as it does, a bearing on all sides but one of the same, it makes a very neat, durable, and compact scrubbing-brush, as well as mop.

What I claim is—

The combination of the brush A, having its back provided with grooves *a* in its ends, with reservoir B, provided with inturned flanges *b*, and having its front edge cut away, so that the reservoir may be slipped on and off the brush, and secured thereto by means of grooves *a* and flanges *b*, and thus also forming an opening for the admission of the water, and rubber strip D, secured to the front edge of the brush, and adapted to close said opening and to drive the water through the same, substantially as specified.

JOHN OLAF ASTENIUS.

Witnesses:

EDMUND ADCOCK,
JOHN W. MUNDAY.