

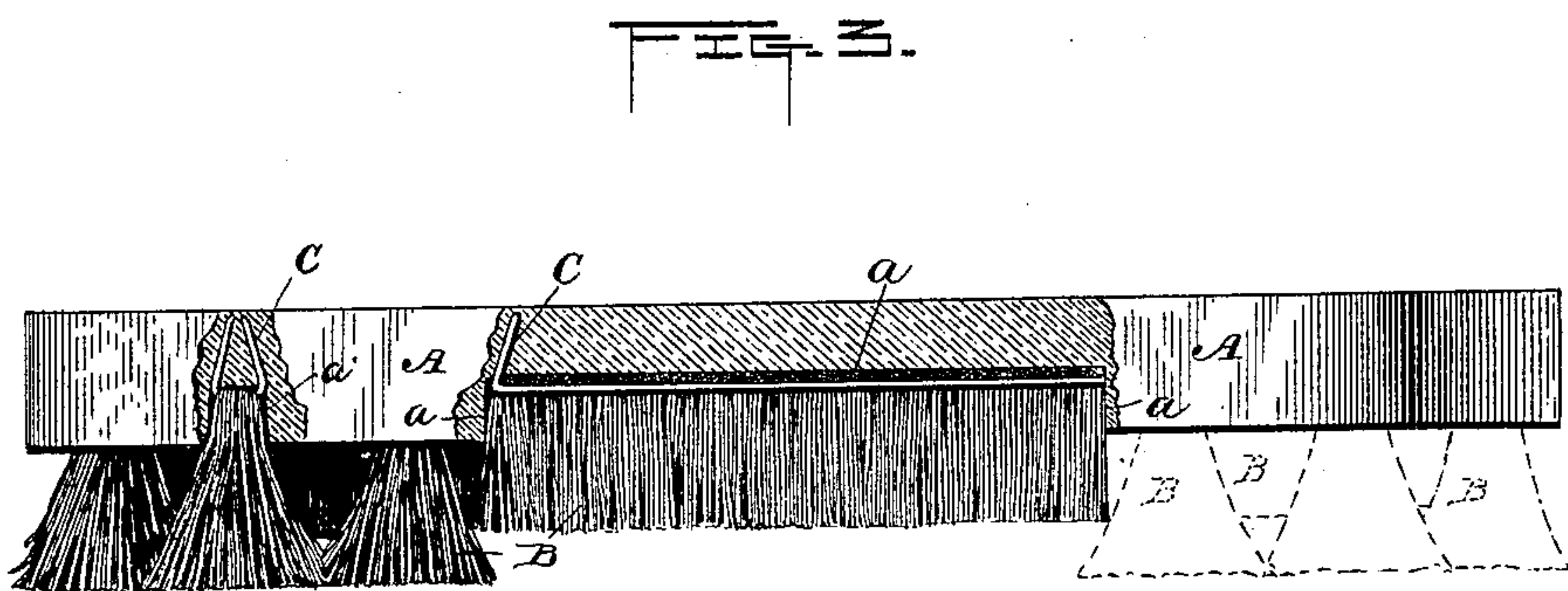
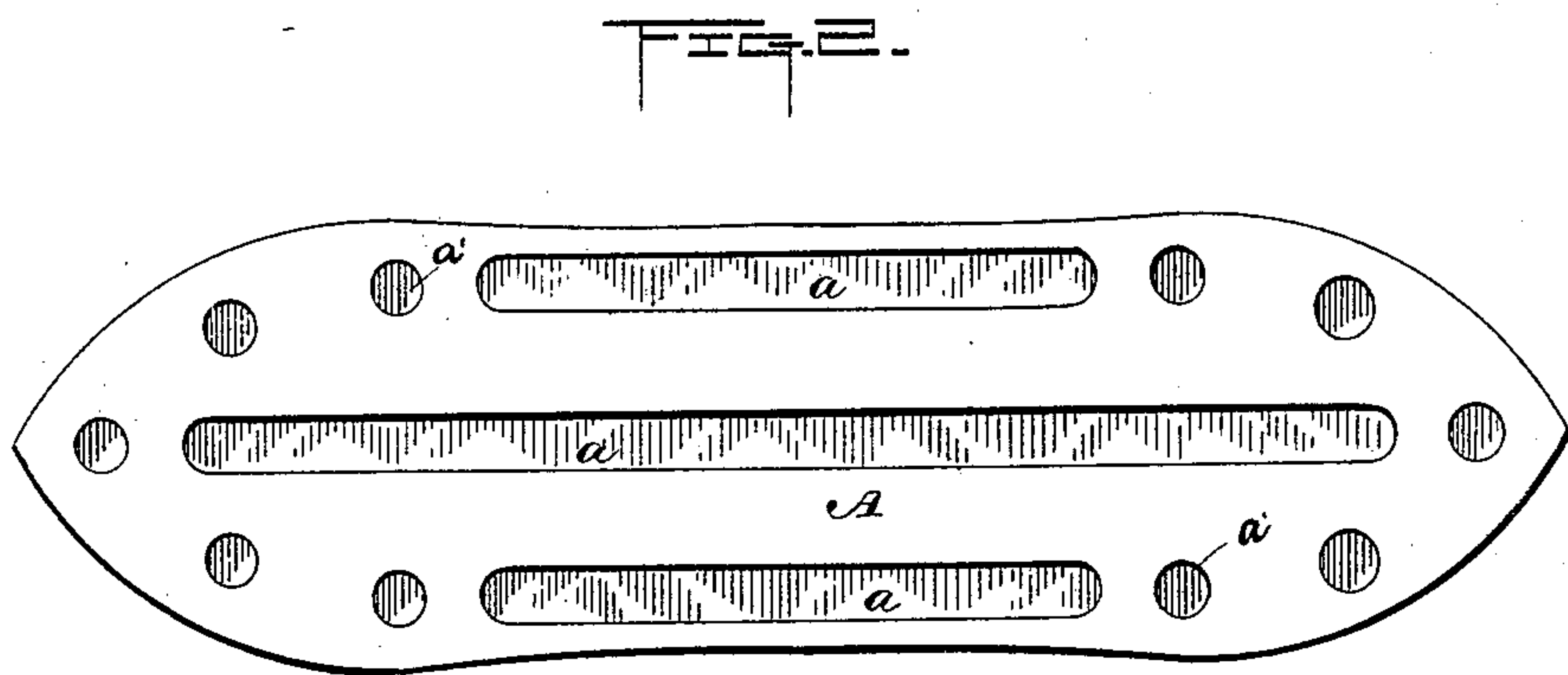
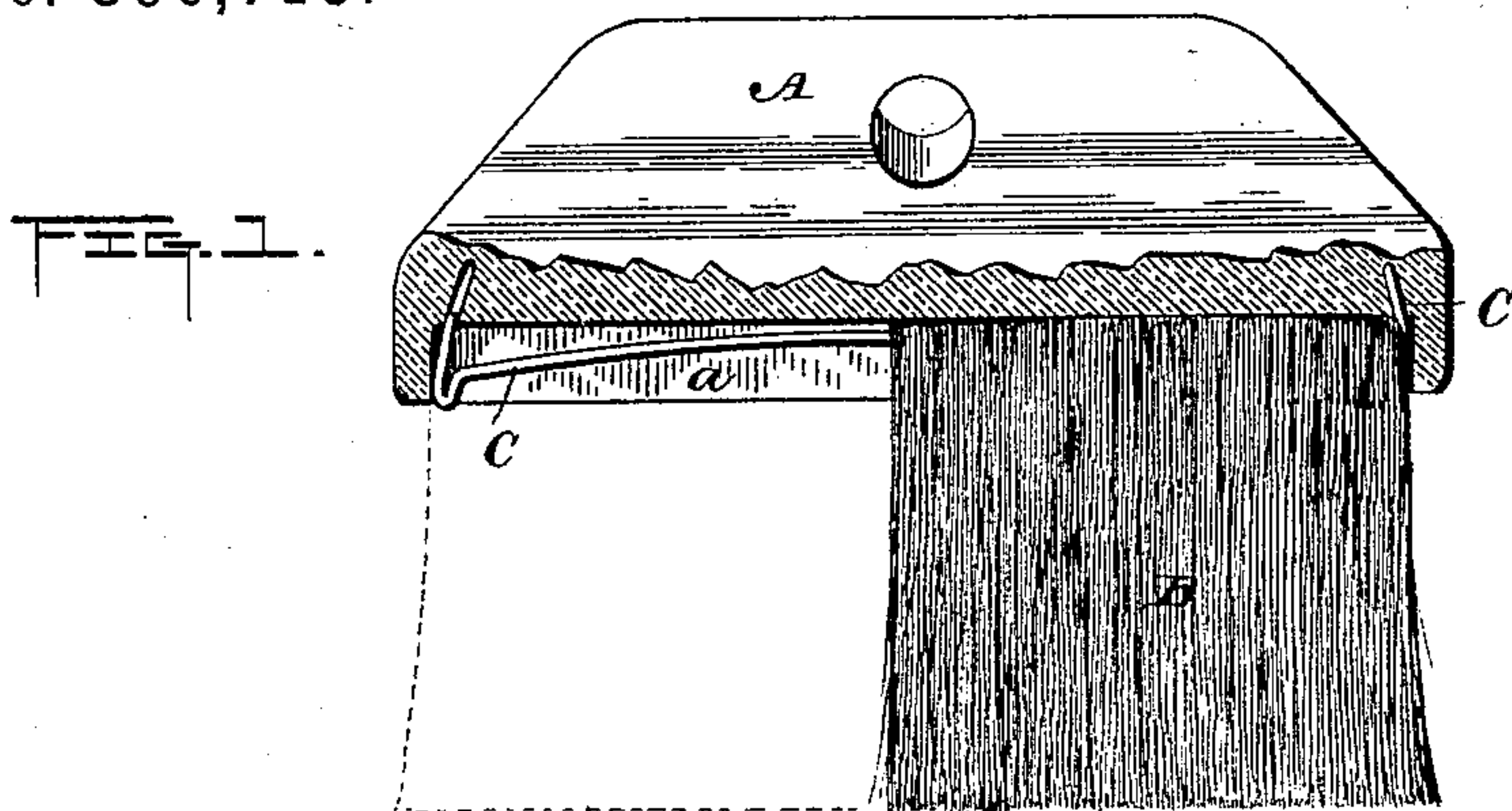
(No Model.)

L. STRICKEL.

BRUSH.

No. 390,715.

Patented Oct. 9, 1888.



Witnesses:

J. G. Somer, Jr.
Geo. H. Parnelle.

Inventor:

Louis Strickel.
By N. S. Wright,
Attorney.

UNITED STATES PATENT OFFICE.

LOUIS STRICKEL, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO
GEORGE C. WETHERBEE, OF SAME PLACE.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 390,715, dated October 9, 1888.

Application filed February 14, 1888. Serial No. 263,950. (No model.)

To all whom it may concern:

Be it known that I, LOUIS STRICKEL, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have
5 invented a certain new and useful Improvement in Brushes; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use
10 the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to the manufacture of brushes, having for its object the construction
15 of a firm and durable brush of superior quality and at a reduced cost of manufacture.

My invention consists in the combinations of devices and appliances more fully hereinafter described, and more particularly pointed
20 out in the claim.

In the accompanying drawings, Figure 1 illustrates features of my invention, the same being applied to the construction of a whitewash-brush and shown partly in section; Fig.
25 2, an inverted plan of the scrubbing-brush head; and Fig. 3, a view of the scrubbing-brush in side elevation, partly in section.

I carry out my invention as follows: A represents a solid head of any description or for
30 any desired purpose, and *a* represents an elongated socket in said head, closed at its extremities, as shown, the socket passing longitudinally across the head the desired distance, but without passing through, so as to leave the
35 head intact at the ends of the socket.

B represents any ordinary fiber used in the manufacture of brushes.

C represents an elongated staple corresponding in length substantially to the length of the
40 socket in connection with which it is to be used. The stock of fiber, with the binding-staple, is forced into the socket, the ends of the staples penetrating the head and being clinched therein. The socket being closed at its ends,
45 the staple is hidden from view in a neat and workmanlike manner, the fiber simply extending downward in sight beneath the under face of the head.

In certain cases, if desired, cement may be
50 employed to assist in binding the fiber in the socket, which, being closed at its ends, does

not permit the cement to ooze out therefrom as the fiber is forced therein. In a whitewash-brush a single such socket may suffice, and so a brush be constructed of particular neatness
55 of finish, while at the same time the construction is rendered simple and efficient. In a scrubbing-brush, however, it will be found desirable to construct the solid head with a series of said elongated grooves, each being of
60 any desired length and closed at the ends, leaving the outer edge of the head intact, and in each of which the fiber is secured by the staple in the manner already described. In the scrubbing-brush these elongated recesses are located
65 intermediate the ends of the head, side by side, the interior recesses preferably of greater length than those at the side thereof; though this is immaterial. The scrubbing-brush is also provided with circular smaller sockets, *a'*,
70 of any desired number, located at the ends of the elongated recesses and at the ends of the head of the brush, and into which the fiber is forced and held in place by a staple driven into and clinched in the solid head, as before.
75

In the construction of a scrubbing-brush the center of the brush may first be made by applying the fiber in the elongated grooves, when the stock so put in may be trimmed before the
80 smaller orifices at the ends of the head are filled, after which the said end orifices may be filled and trimmed, so that the fiber shall be of longer length, as is found desirable in this class of brushes. Did the elongated orifices
85 extend through the head, instead of being limited, as described, the whole fiber would of necessity have to be trimmed of equal length; but by so limiting the elongated recesses and constructing the head with smaller orifices at
90 the ends the stock engaged in the respective series of orifices may be trimmed of unequal lengths, as described, so simplifying the manufacture. These smaller orifices may conveniently be bored into the head. The elongated
95 recesses may be made so that the stock shall project substantially straight downward from the head, while at the same time the holes *a'* may be bored into the head in a slanting direction, so as to make the stock project therefrom at an angle, as is found desirable. In
100 this manner the ends of the brush may be so constructed and shaped as to facilitate the en-

trance of the brush into corners and the like.

I would have it definitely understood that, although I have described and illustrated my invention as applied to whitewash and scrub-
5 bing brushes, I do not limit myself thereto, as I contemplate the application of my invention to various brushes to which it may be found adapted. Neither do I wish to limit myself to a brush where the fiber is applied in the
10 annular and elongated sockets trimmed of unequal lengths, as the fiber might be of uniform length without departing from the principle of my invention.

What I claim is—

15 The improved brush herein described, consisting of a solid head formed of a single in-

tegral piece and provided intermediate its ends with a series of parallel elongated sockets closed at their extremities, having in combination therewith fiber secured in said sockets
20 by a corresponding series of elongated staples, the extremities of said head provided with annular sockets having fiber stapled therein, all substantially as and in the manner described.
25

In testimony whereof I sign this specification in the presence of two witnesses.

LOUIS STRICKEL.

Witnesses:

N. S. WRIGHT,
GEORGE H. HIGGS.