

No. 637,294.

Patented Nov. 21, 1899.

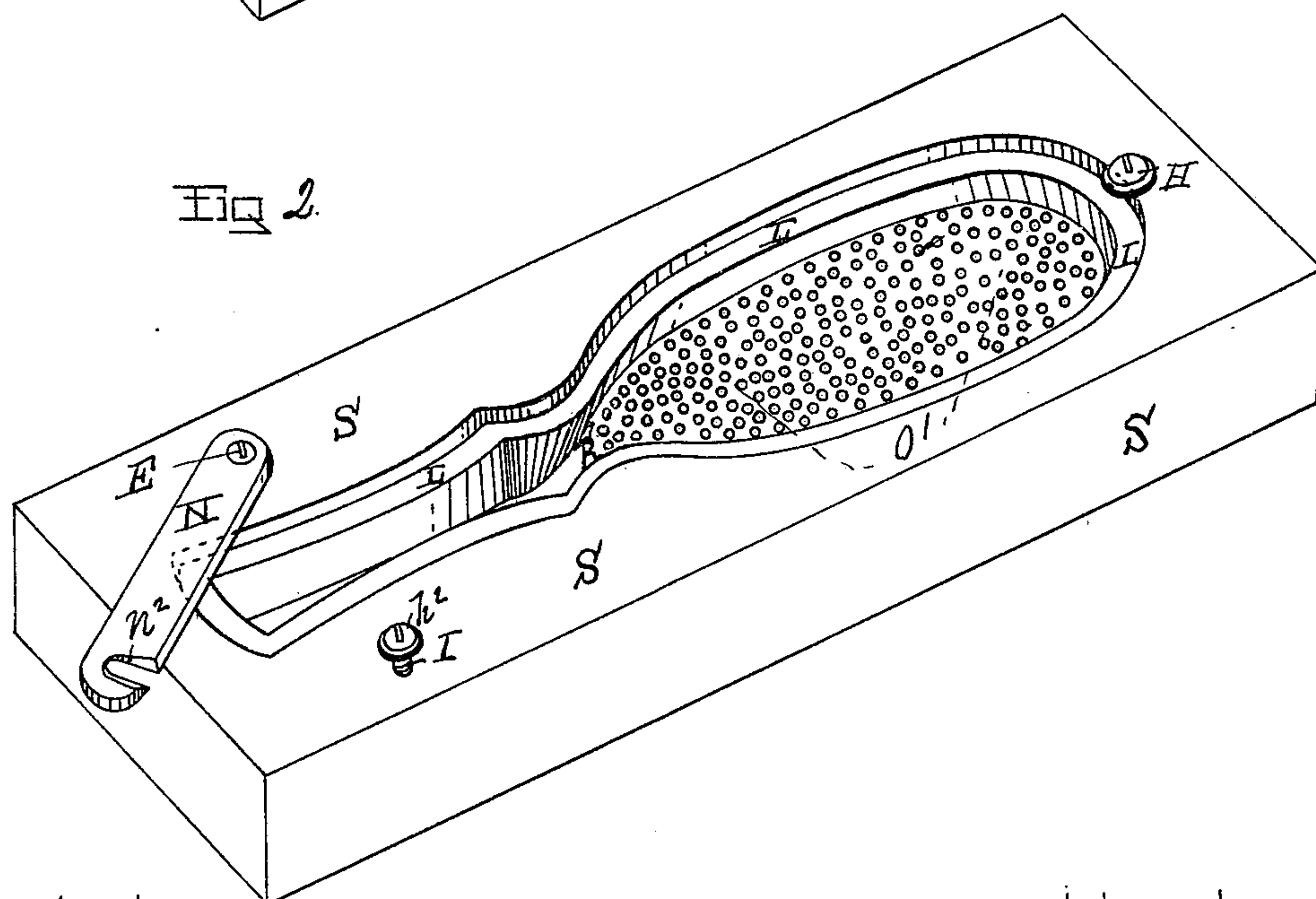
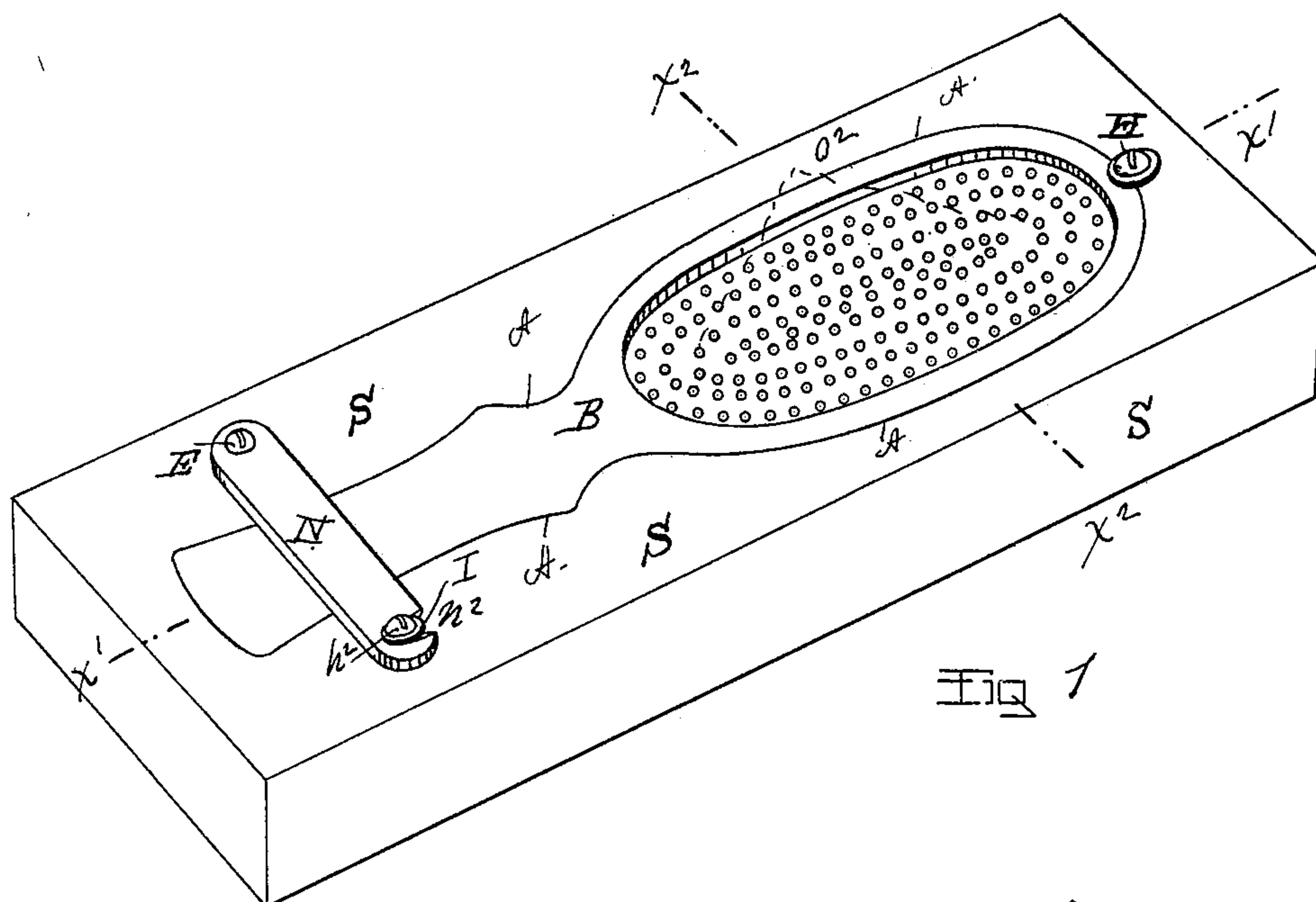
A. L. SONN.

BRUSH MAKING APPARATUS.

(Application filed Dec. 16, 1897. Renewed June 1, 1899.)

(No Model.)

3 Sheets—Sheet 1.



WITNESSES

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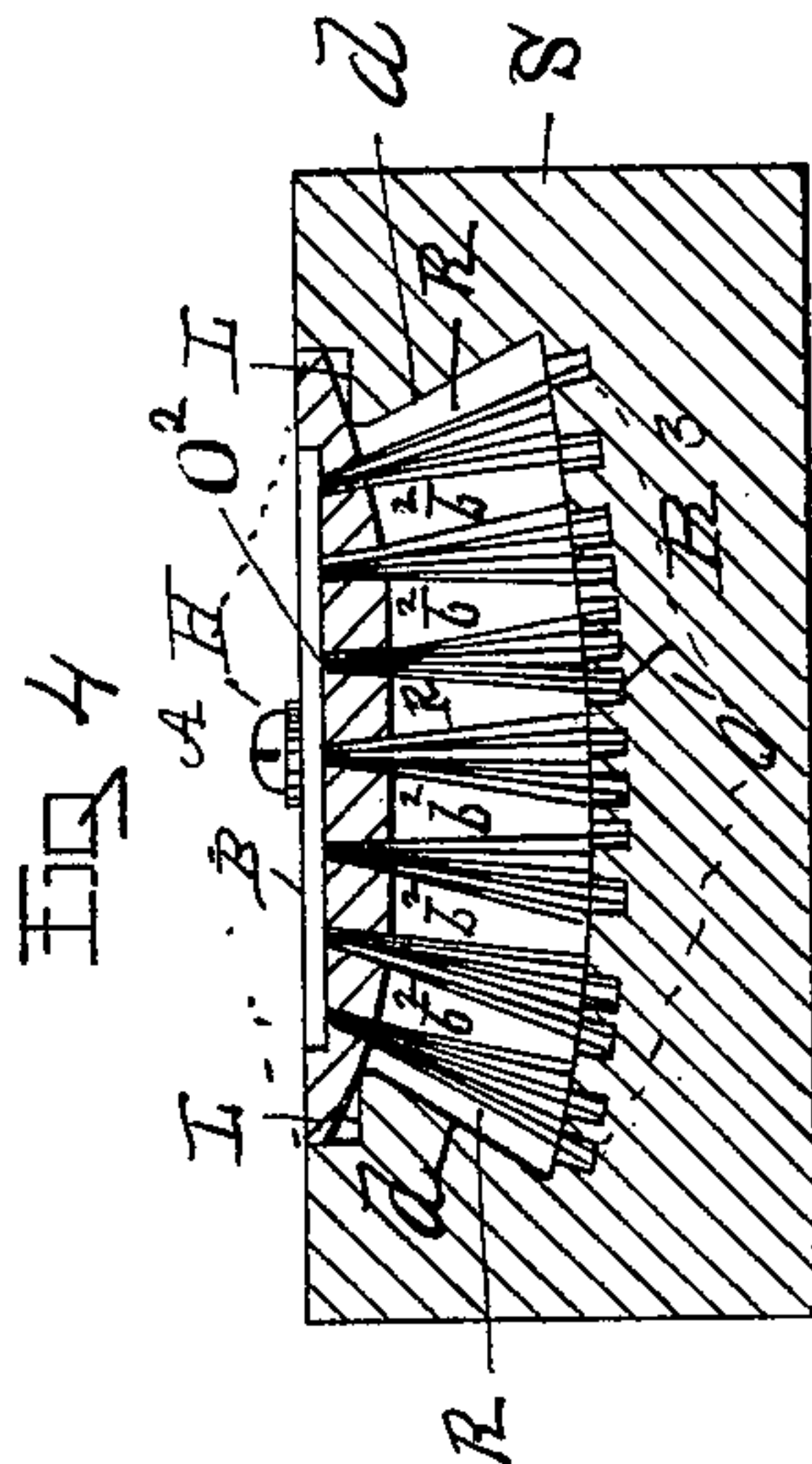
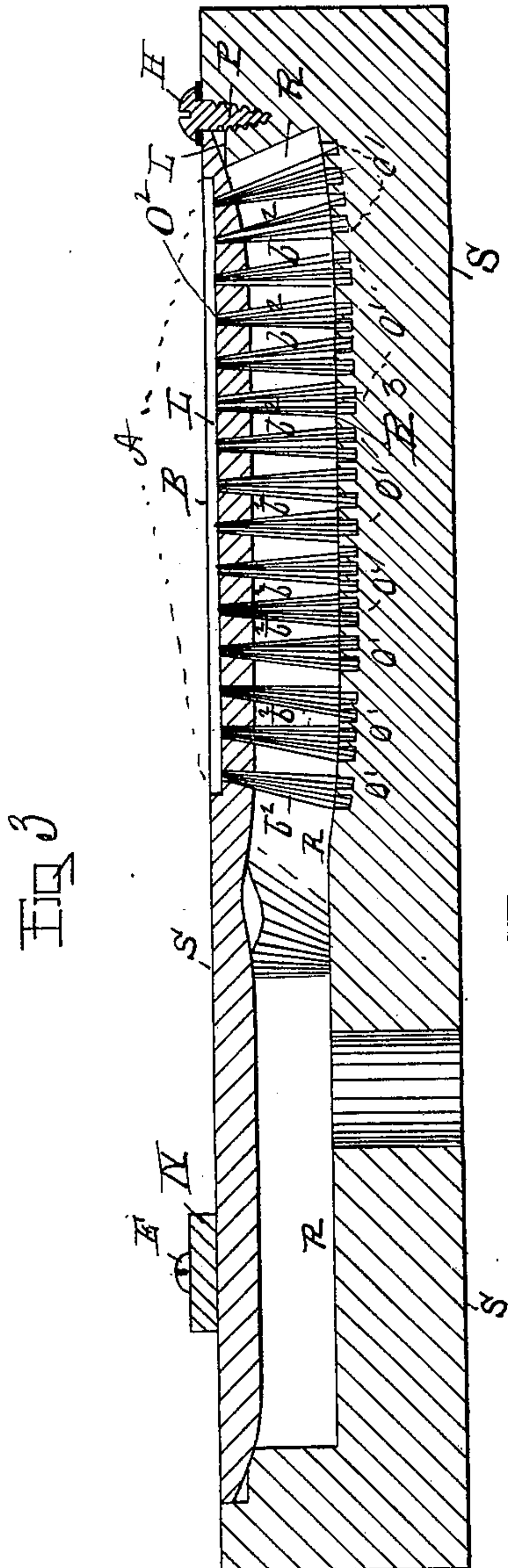
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3 Sheets—Sheet 2.



WITNESSES

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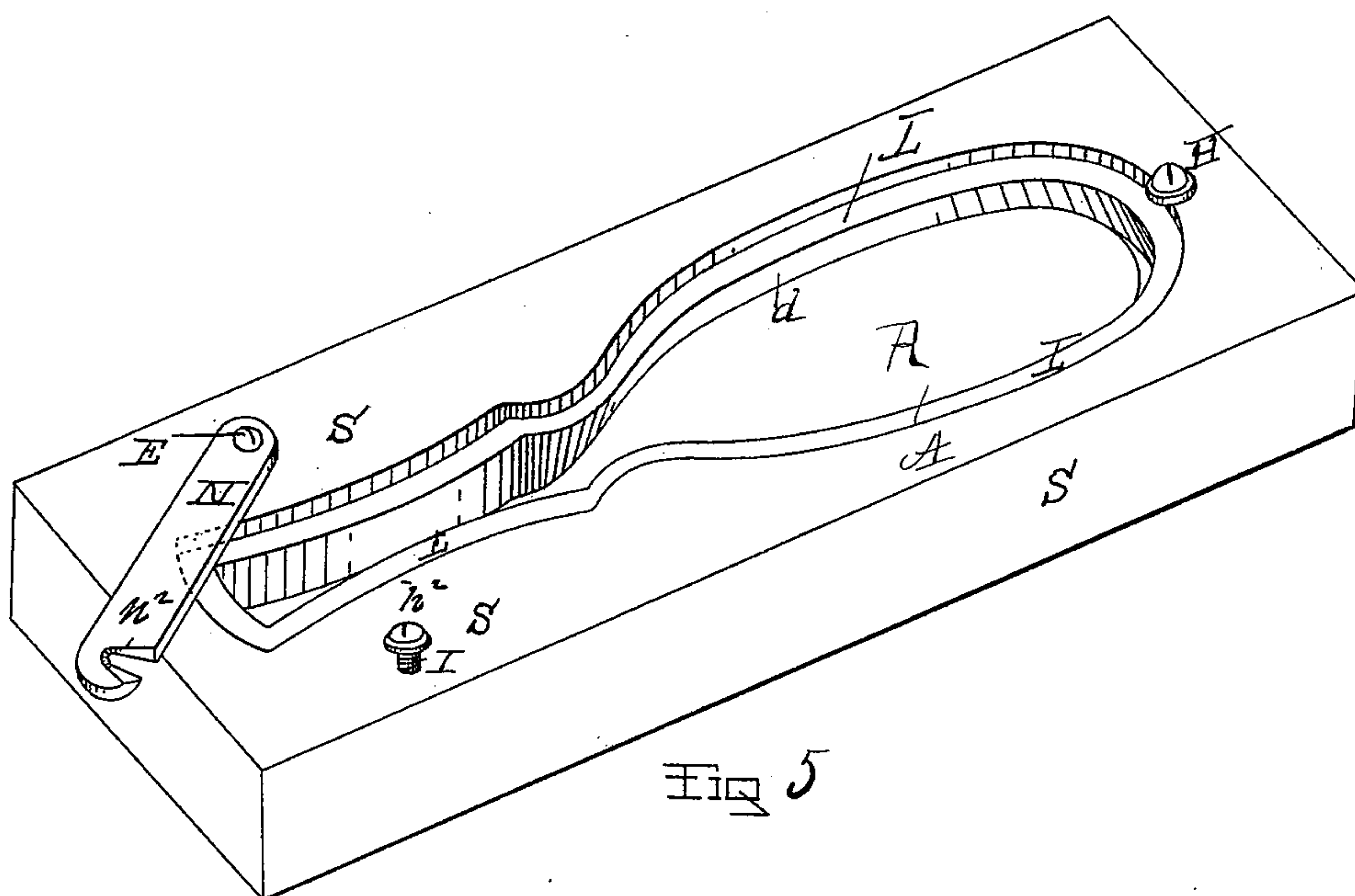


Fig 5

WITNESSES

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UNITED STATES PATENT OFFICE.

ANSON L. SONN, OF LANSINGBURG, NEW YORK.

BRUSH-MAKING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 637,294, dated November 21, 1899.

Application filed December 16, 1897. Renewed June 1, 1899. Serial No. 719,011. (No model.)

To all whom it may concern:

Be it known that I, ANSON L. SONN, of the village of Lansingburg, county of Rensselaer, and State of New York, have invented new and useful Apparatus for Holding Brush-Backs while the Bristles are being Inserted Therein, of which the following is a specification.

My invention relates to that kind of apparatus in which the backs of brushes after having been bored are held in position while the bristles are inserted in the bored holes, and also to a construction of such apparatus whereby bristles of differing lengths may be inserted in the bored holes of the brush-backs, so as to have some of the bristles extend beyond others of the same bunch, so as to produce what are known as "penetrating-brushes."

Accompanying this specification to form a part of it there are three plates of drawings, containing five figures, illustrating my invention, with the same designation of parts by letter reference used in all of them.

Of the illustrations, Figure 1 is a perspective of the apparatus with a brush-back which has been bored shown as placed in the apparatus preparatory to having the bristles entered through holes bored therein. Fig. 2 is another perspective of the apparatus with the brush-back removed. Fig. 3 is a section taken on the line $x'x'$ of Fig. 1. Fig. 4 is a section taken on the line x^2x^2 of Fig. 1, and Fig. 5 is a perspective of the apparatus in which the holes bored in the bottom of the stock are omitted.

The several parts of the apparatus thus illustrated are designated by letter reference, and the function of the parts is described as follows:

The letter S designates the stock, which preferably has rectilinear sides and ends and which is constructed to have the recessed interior, (designated at R,) with its top opening having the form of the brush-back to be operated upon.

The letters d designate the sides of the recessed interior or sink formed in the stock and which sides are beveled outwardly as extended downwardly from the top opening A, excepting those parts of the interior sides which are beneath the handle part, which are about vertical.

The letters L designate a ledge or shelf

formed in the upper edge of the interior or sink R to encircle the top opening A of the latter. The function of this ledge L as thus located is to receive the edge of the brush-handle and also the edge of the brush-back where outside the holes bored for the bristles, with a brush as thus placed being shown at Fig. 1.

To secure the brush-back within the stock-ledge L while the bristles are being inserted in the back, the latter is entered upon the ledge L, with the end of the brush-back passed beneath the overhang of the head H on the pin P, with the edge of the handle part and that part of the brush-back edge outside of where bored resting on the ledge L within the opening A.

The letter N designates a horizontally-arranged latch-bar, which at one of its ends E is pivoted to the top of the stock, so as to swing around over the latter on such pivotal connection, and in its side, near its end opposite to that on which it is pivoted, there is formed in the bar N the latch-notch n^2 , and the letter I designates a pin that is upwardly projected from the top of the stock, said pin having a head h^2 , under which the bar passes to have its notch n^2 engage with the pin I.

The letter R^3 designates the bottom surface of the sink or recessed interior R, and, as shown at Figs. 1, 2, 3, and 4, this bottom R^3 has holes O' bored therein at random as to position. As thus constructed when a brush is placed within the opening A to rest on the ledge L and bristles b^2 in bunches are passed down through the holes O^2 , formed in the brush-back, to be secured therein, a part of the bristles of each bunch will enter some of the holes O' in the bottom of the sink or recess R and others of the bristles in the same bunch will have their downwardly-projected ends resting on the bottom R^3 outside of the holes formed in the latter, and when the bristles thus passed through the holes O^2 are secured in the back some of the bristles of each bunch will be longer than the others, and thus produce what are known as "penetrating-brushes."

When it is desired to use my improved holder to retain brush-backs in position while the bristles in bunches are being inserted in the holes bored therein and to have the bris-

tles where extending beyond the brush-back the same length, then the random-bored holes O' in the bottom of the sink or recess are omitted and the bottom of the sink or recess is made solid, as shown at Fig. 5. Thus holding a brush-back while bristles are being inserted therein by means of the holder which I illustrate and describe facilitates and makes more satisfactory the work.

10 While I have shown a latch-bar as made to retain the brush in position within the opening formed in the sink or recess when the bristles are being inserted in the brush-back holes, any other well-known means which will
15 secure the brush-back within the ledge and stock in an equivalent manner may be used.

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

20 1. In an apparatus for inserting bristles having differing lengths in brush-backs, the combination with a stock having a recess or sink formed therein and provided with a ledge or shelf in its upper edge whereby a brush-
25 back which has been bored for the passage of bristles may be entered to rest on said ledge and be secured therein; of holes bored at random in the recess-bottom whereby bristles in-

serted in and passed down through the holes in the back will some of them enter the holes 30 bored at random in the recess or sink bottom, and other bristles of the same bunch rest on the recess or sink bottom outside of the holes bored therein, and whereby some of the bristles when secured in the back will have 35 greater length than the others substantially as shown and described.

2. The combination with the stock S, of the sink or recess R, formed therein; the ledge or shelf L, produced in the top edge of the sink 40 or recess to encircle the latter; the sink-bottom R³, having the holes O' bored therein at random as regards spacing; the latch N, provided with the latch-notch n², and pivoted to the stock at E, and the latch-pin I, upwardly 45 projected from the stock; constructed and arranged to be operated substantially as and for the purposes set forth.

Signed at the city of Troy this 21st day of October, 1897, in the presence of the two witnesses whose names are hereto written. 50

ANSON L. SONN.

Witnesses:

I. H. SONN,

W. E. HAGAN.