

No. 674,120.

Patented May 14, 1901.

R. J. MONTGOMERY.
HAIR BRUSH.

(Application filed July 22, 1898.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

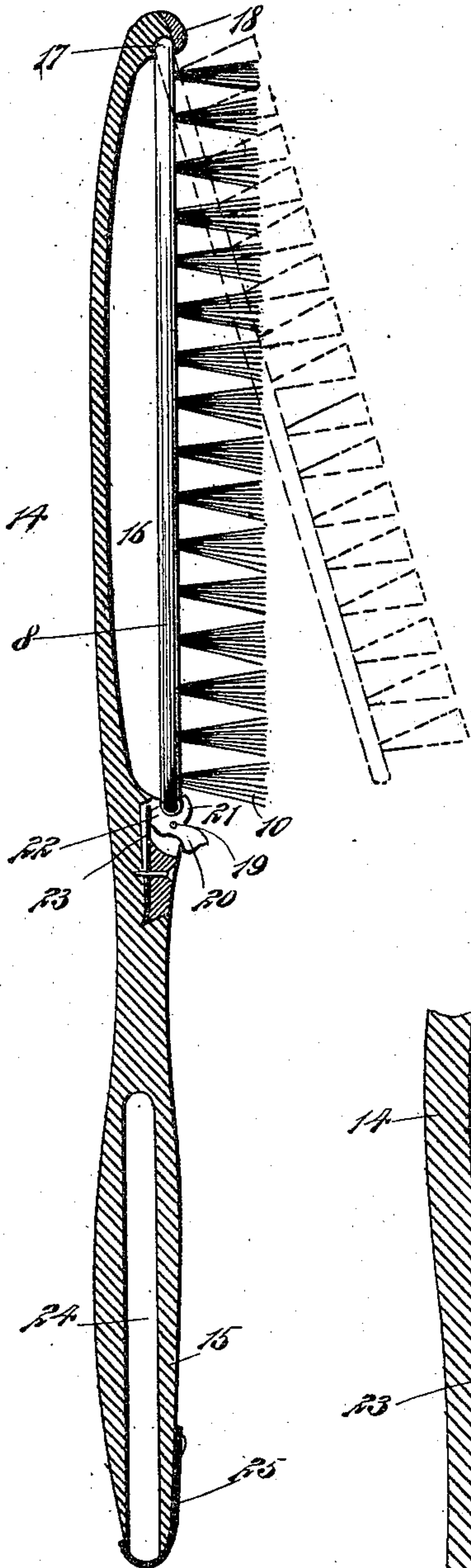


Fig. 2.

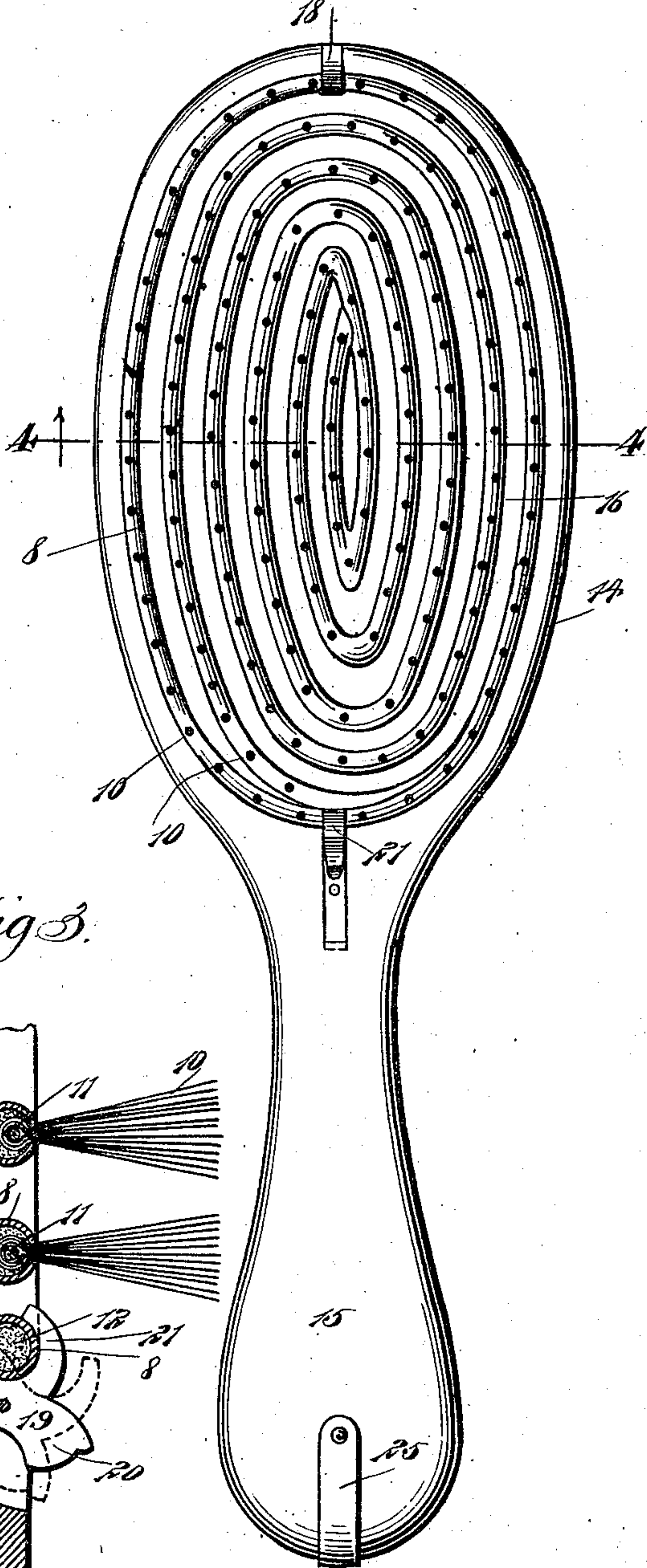
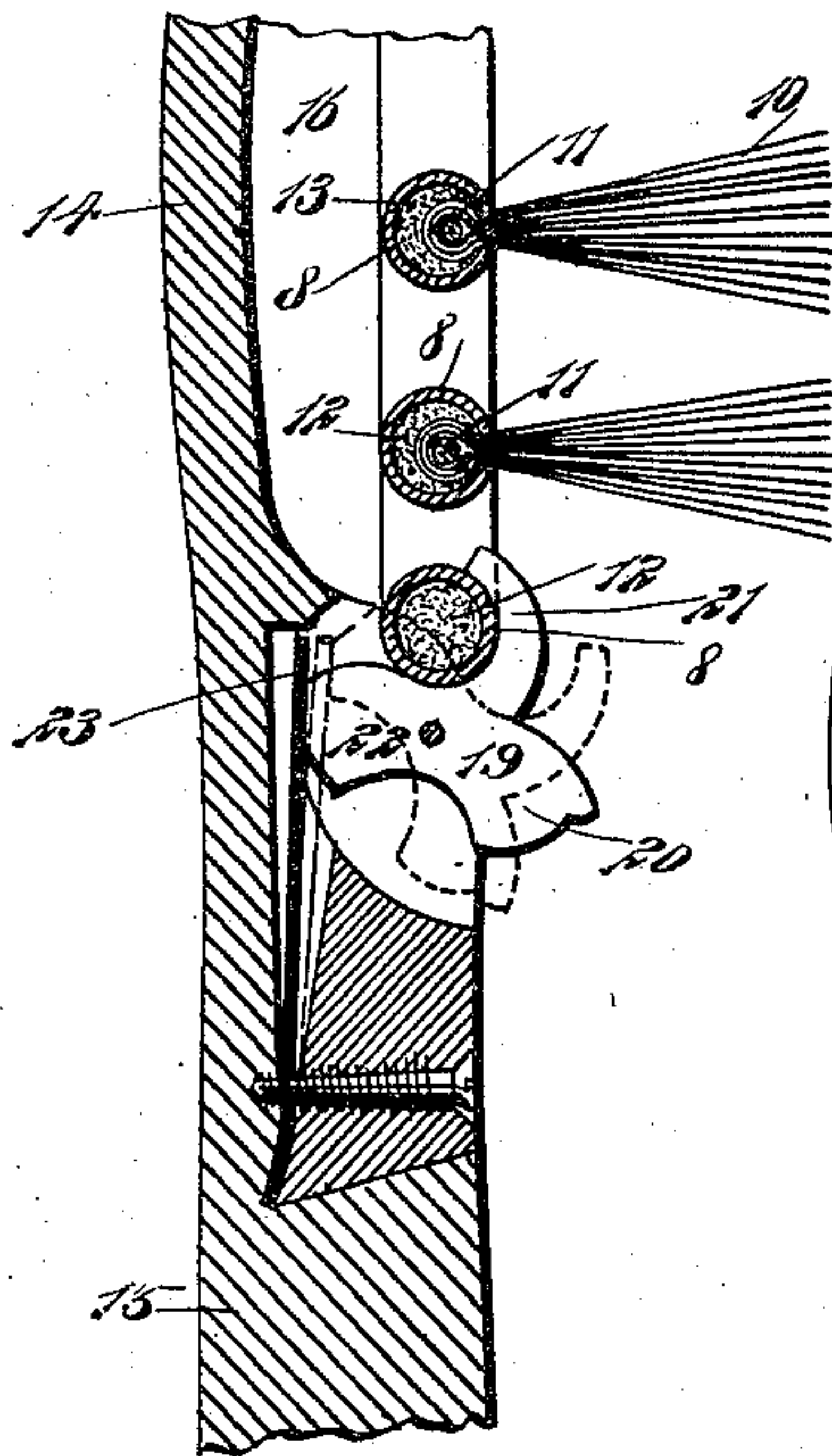


Fig. 3.



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2 Sheets—Sheet 2.

Fig. 4.

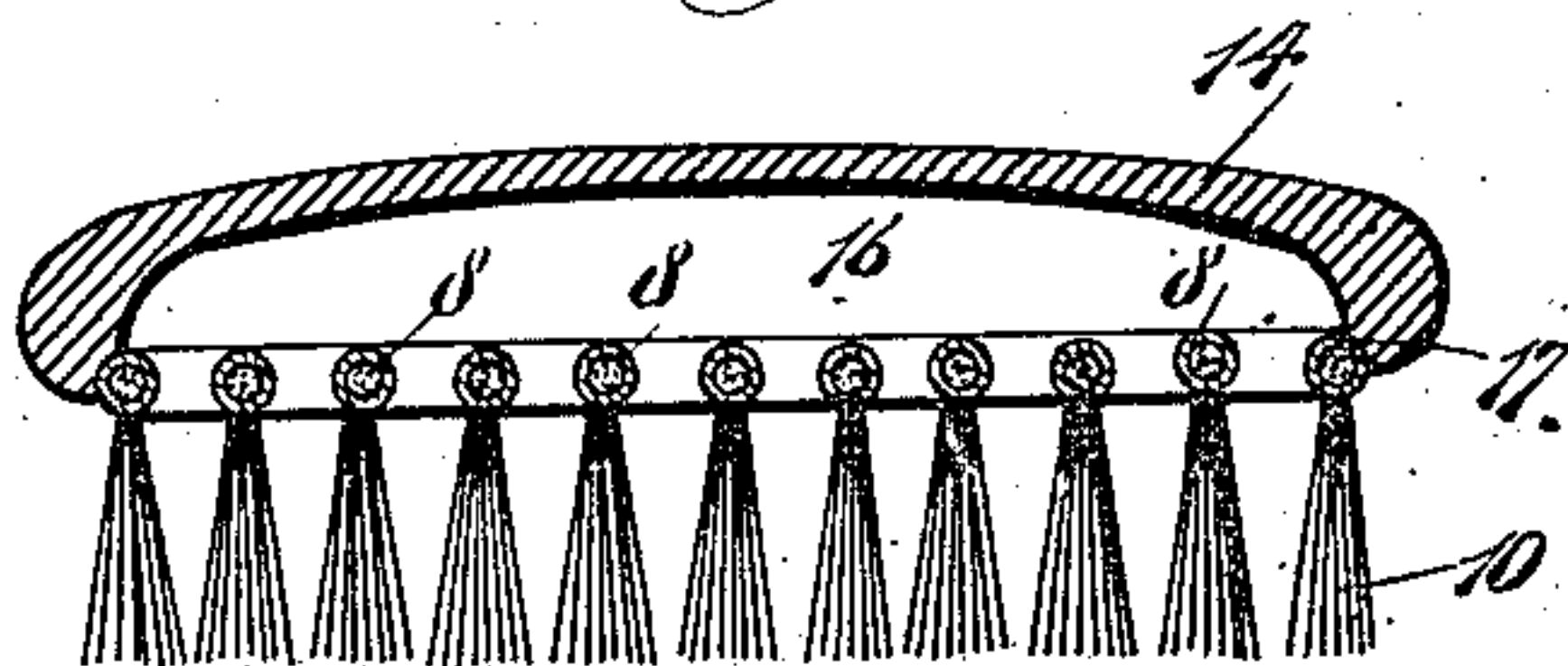


Fig. 5.

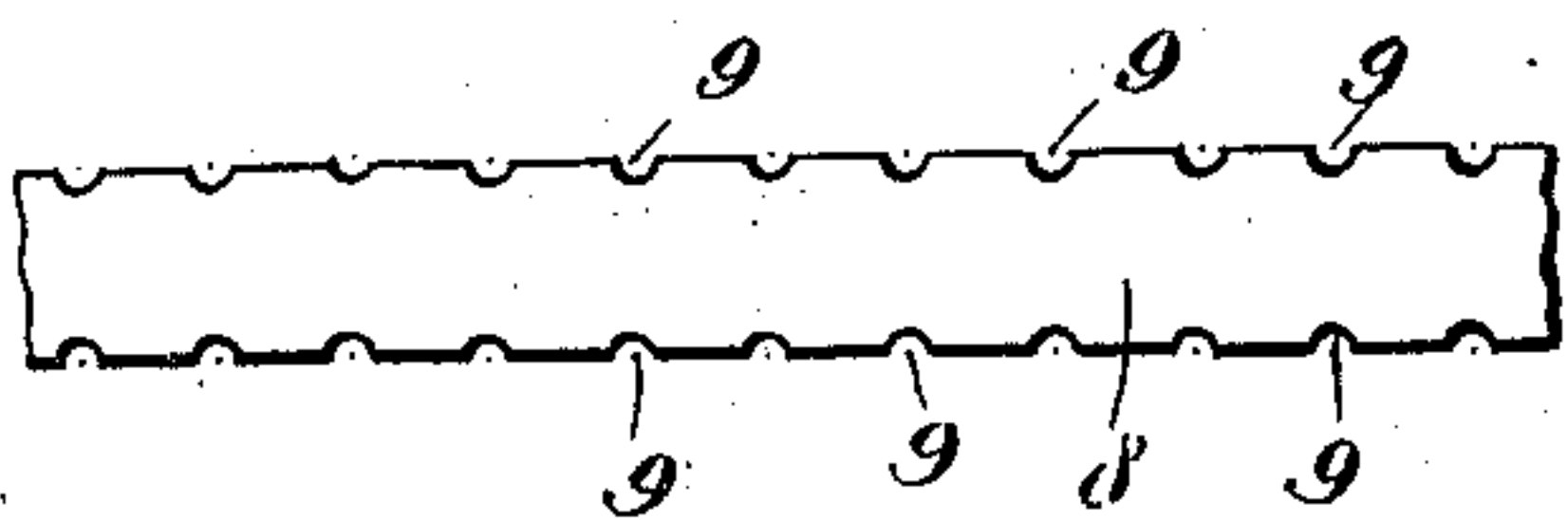


Fig. 6.

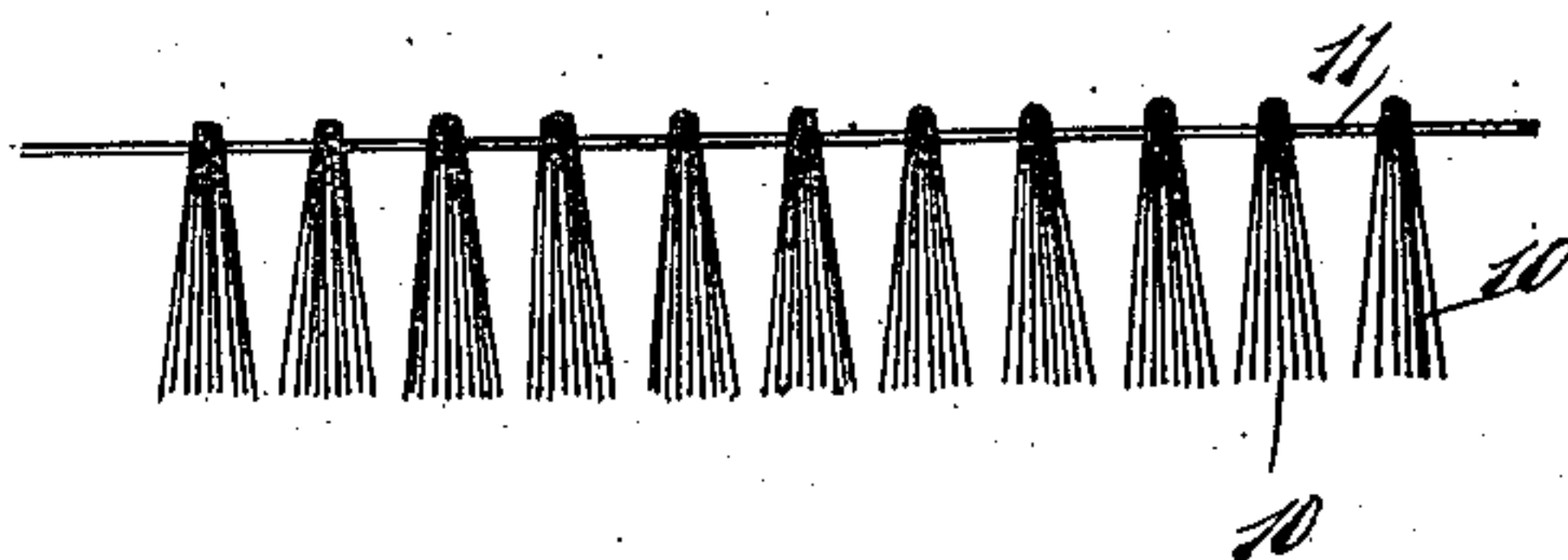


Fig. 7.

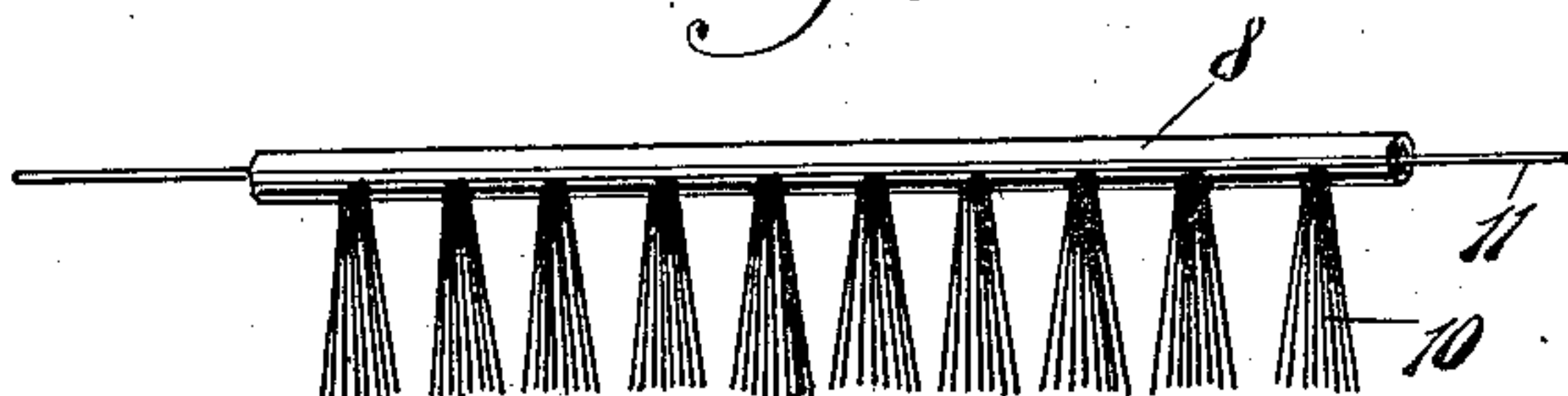


Fig. 8.

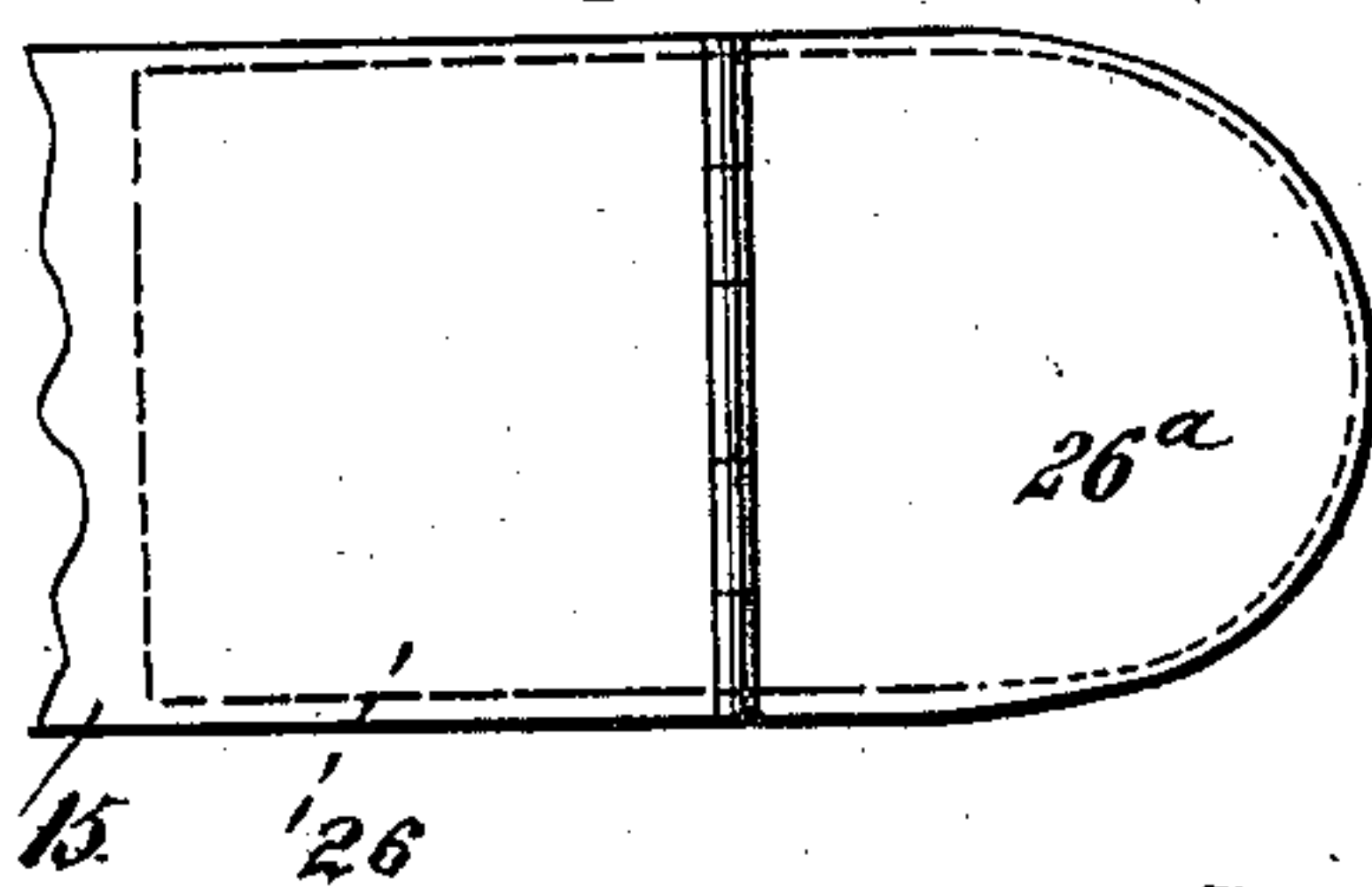
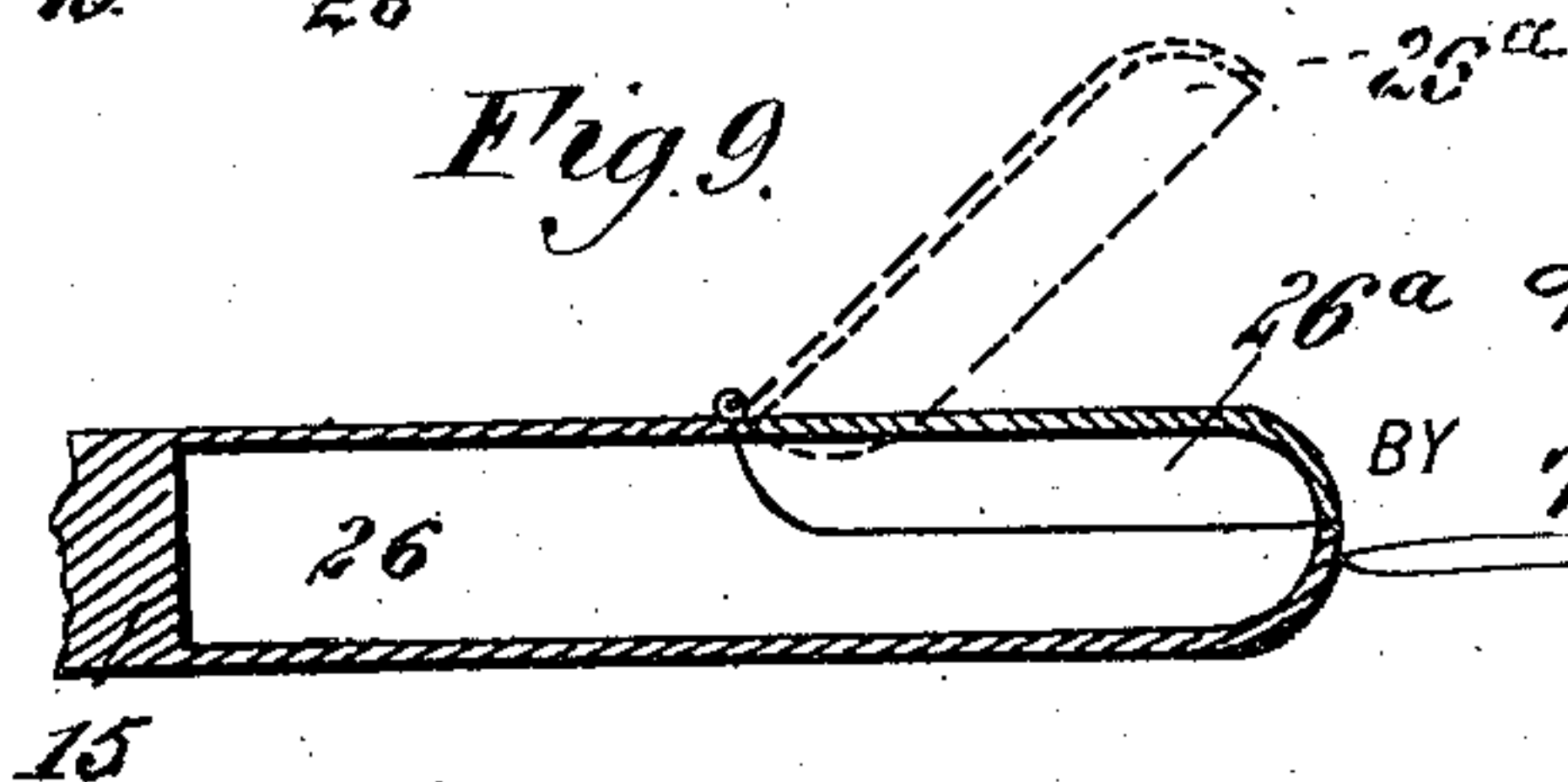


Fig. 9.



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UNITED STATES PATENT OFFICE.

ROBERT J. MONTGOMERY, OF CHICAGO, ILLINOIS.

HAIR-BRUSH.

SPECIFICATION forming part of Letters Patent No. 674,120, dated May 14, 1901.

Application filed July 22, 1898. Serial No. 686,618. (No model.)

To all whom it may concern:

Be it known that I, ROBERT J. MONTGOMERY, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Hair-Brush, of which the following is a full, clear, and exact description.

This invention relates to a brush in which the bristles are joined to a framework separate from the back and the back provided with devices by which the bristle-holding frame may be held attached to the back and detached from the same.

This specification is the disclosure of one form of my invention, while the claim defines the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal section of the invention. Fig. 2 is a bottom plan view with the bristles removed, showing the framework in position. Fig. 3 is an enlarged fragmentary section showing the catch for holding the bristle-frame in place. Fig. 4 is a section of the improved brush substantially on the line 4-4 of Fig. 2. Fig. 5 is a fragmentary view of the blank from which is formed the tubulated frame to hold the bristles. Fig. 6 is a fragmentary view of the clusters of bristles joined to the core-wire. Fig. 7 is a fragmentary view of the bristles held by the tube-frame and core-wire, and Figs. 8 and 9 are respectively a plan and a side elevation of a modification in the construction of the brush-handle.

The frame which carries the bristles is, as shown in Fig. 2, in the form of a continuous helical coil flattened into ovate form and having its ends joined to contiguous portions of its length to make a rigid structure. This frame is formed of a strip of sheet metal 8, the edges of which are provided with notches 9, arranged opposite each other in pairs, so that when the strip 8 is tubulated, as shown best in Fig. 3, the notches register with each other to form in the tube a series of openings through which the bristles may project. The bristles 10 in separate tufts are bent around a core-wire 11 at spaced intervals, and the strip 8 should then be laid over the core-wire

with the bristles thereon, after which the strip should be tubulated, so as to inclose the core-wire, as shown in Fig. 3, and permit the bristles 10 to project through the openings formed by the notches 9. By these means the bristles are secured in place. When the bristles have thus been joined to the tube formed by the strip 8, the tube is turned into the form shown in Fig. 2, thus producing the rigid frame, to which are joined the bristles. Within the tube, as shown best in Fig. 3, a plastic substance 12 is arranged, which serves principally to prevent water from entering the tube, as well as to fill the tube and to hold the wire 11 rigid. To further preserve the bristles, the tube may be nickel-plated or otherwise covered with an impervious substance to entirely seal the seams therein.

The back of the brush has a back proper, 14, and a handle portion 15, formed integral with each other, the former having a concavity 16, over which the frame formed by the strip 8 is laid, such frame being placed in an oval-shaped seat 17. The back portion 14 is provided with an inwardly-projected lug 18, engaging the tube to hold the bristle-frame at its outer end. The opposite or inner end of the bristle-frame is held by a dog 19, having a thumb-piece 20, a finger 21 for engaging the frame, and a finger 22, engaged by a spring 23, which serves to hold the dog 19 either in the position shown by full lines in Fig. 3 or in the position shown by dotted lines. This dog removably holds the bristle-frame in place. When the dog is in the open position, (see dotted lines in Fig. 3,) the outwardly-curved portion of the finger 22 will be engaged by the frame as the frame moves into place, thus throwing the dog automatically into closed position.

By means of my invention the purchaser may secure a single back and any number of different styles of bristle-frames, thus using the one back and applying the bristle-frames as desired. The back not being subjected to the action of water will last indefinitely, while the bristles, being less durable, may be replaced without affecting the back.

The handle 15 may, as shown in Figs. 1 and 2, be provided with an elongated cavity 24, opening at the outer end of the handle por-

tion and closed by a swinging lid 25, hinged to the handle. In this cavity may be placed hairpins or other articles used in ladies' toilets.

5 The modification shown in Figs. 8 and 9 consists in forming a cavity 26 in the outer end of the handle 15, such cavity being extended transversely throughout the entire width of the handle at said end thereof. The
10 cavity may be extended longitudinally for any distance desired, according to the articles that are to be placed therein. One side of the cavity is open and provided with a hinged lid 26^a, by which it may be closed.
15 Having thus described my invention, I

claim as new and desire to secure by Letters Patent—

A brush having a bristle-frame seat formed on the under side of its back, a bristle-frame, and means for removably securing the latter 25 to its seat comprising a fixed lug on the brush to engage one end of the frame, a spring-pressed dog pivotally secured to the back and provided with a finger for engaging the other end of said frame.

ROBERT J. MONTGOMERY.

Witnesses:

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