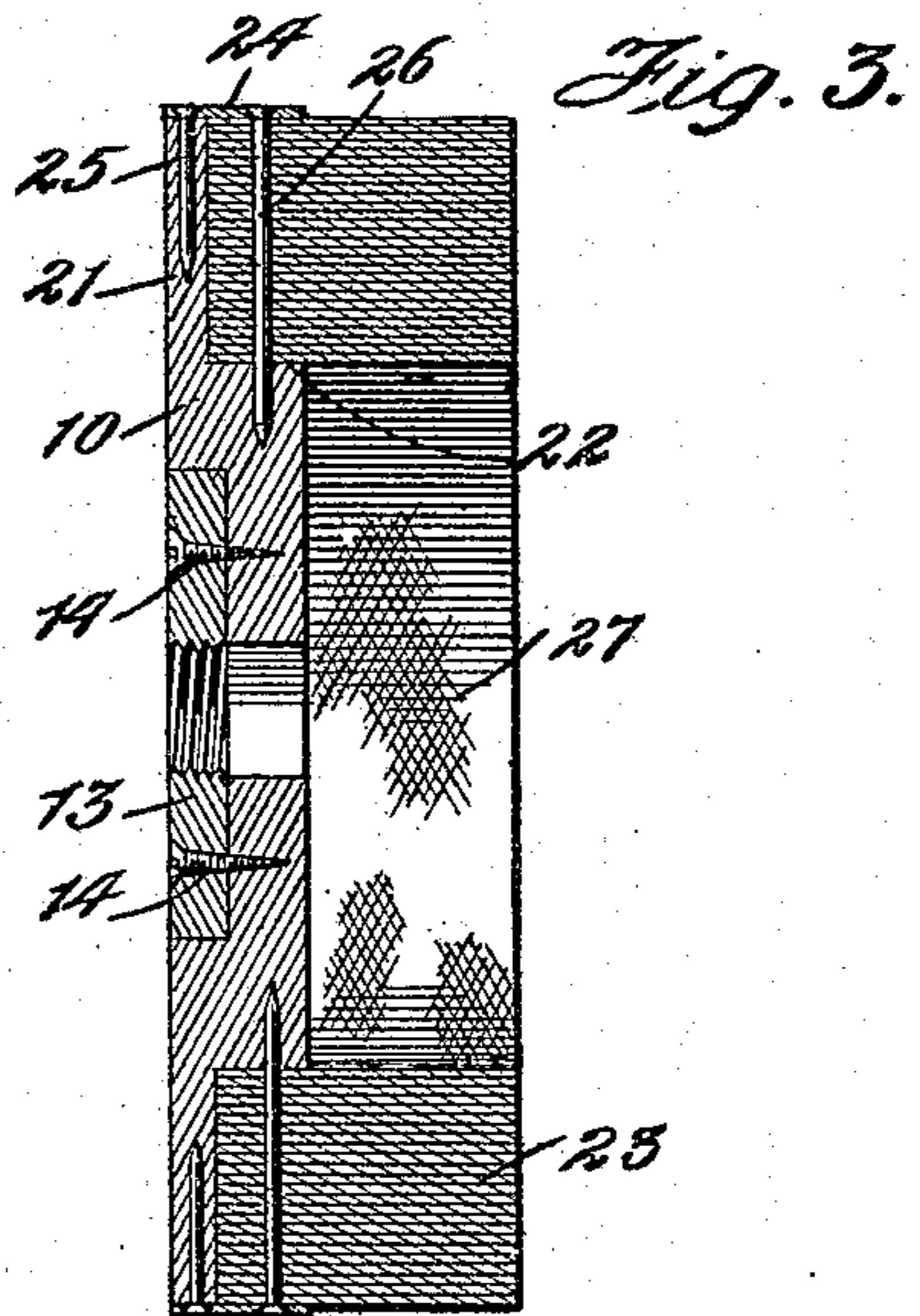
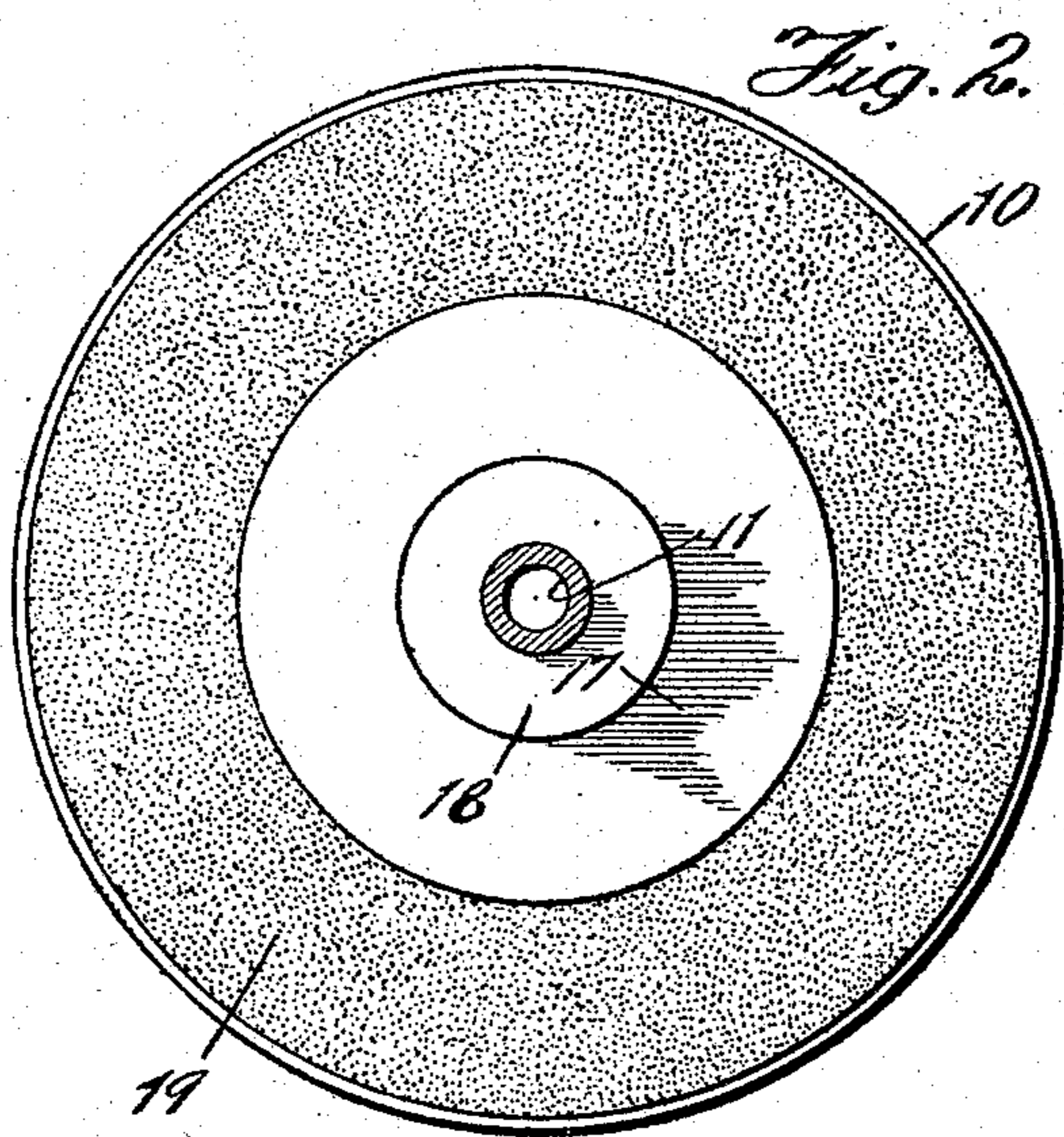
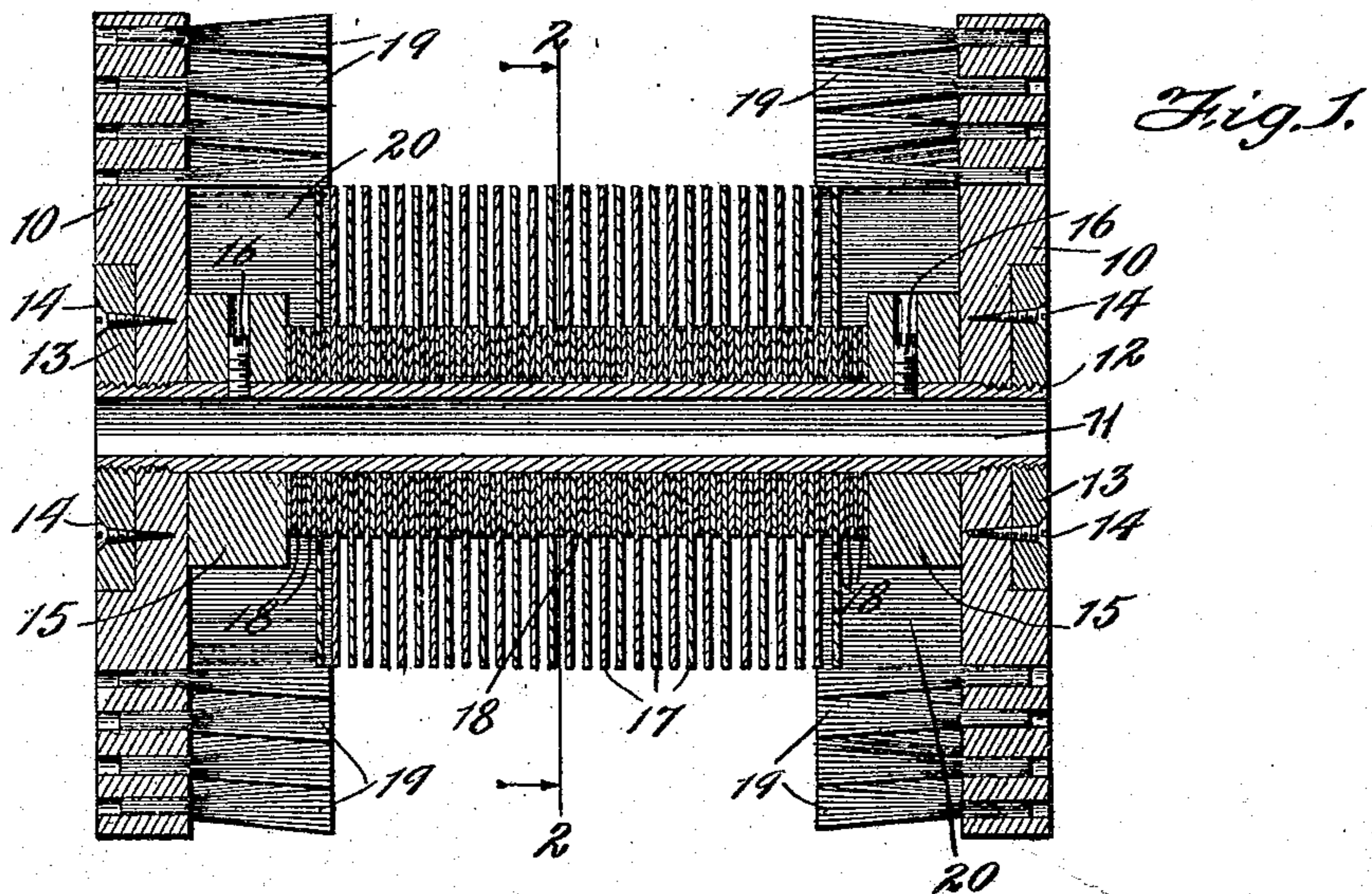


J. A. BREWER
POLISHING BRUSH
APPLICATION FILED MAY 8, 1907.

936,699.

Patented Oct. 12, 1909.



Witnesses:
J. D. Perry
J. F. Gochum, Jr.

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by [Signature] Attorney

UNITED STATES PATENT OFFICE.

JOHN A. BREWER, OF JACKSON, MICHIGAN, ASSIGNOR TO ELECTRIC SHOE POLISHER COMPANY, OF JERSEY CITY, NEW JERSEY, A CORPORATION OF NEW JERSEY.

POLISHING-BRUSH.

936,699.

Specification of Letters Patent.

Patented Oct. 12, 1909.

Application filed May 8, 1907. Serial No. 372,460.

To all whom it may concern:

Be it known that I, JOHN A. BREWER, a citizen of the United States, residing at Jackson, in the county of Jackson and State of Michigan, have invented certain new and useful Improvements in Polishing-Brushes, and More Particularly in Combined Brushes and Buffers, of which the following is a specification.

10 This invention relates to improvements in combined brush and buffer especially adapted for shoe shining or polishing machines and the like, and the primary object of the invention is to provide an improved, simple and compact combined buffer and brush, so arranged as to effectively polish the shoe and at the same time entirely remove the dirt from the crease formed at the junction of the upper with the sole.

20 A further object is to provide an improved single brush construction, so arranged that a portion of the brush will engage the upper surface of the shoe while another portion will engage the sides and edges of the shoe.

To the attainment of these ends and the accomplishment of other new and useful objects, as will appear, the invention consists in the features of novelty in the construction, combination and arrangement of the several parts hereinafter more fully described and claimed, and shown in the accompanying drawing illustrating an exemplification of the invention, and in which—

35 Figure 1 is a longitudinal sectional view of an improved brush and buffer constructed in accordance with the principles of this invention. Fig. 2 is a sectional view on line 2—2 of Fig. 1. Fig. 3 is a sectional view of a modified form of end brushing member or head.

Referring more particularly to the drawing and in this exemplification of the invention, the numeral 10 designates spaced heads, which are connected by a suitable axle or hub 11. This axle or hub is detachably connected to the heads or end members 10 in any desired or suitable manner, preferably by means of screw-threads 12 on the extremities thereof, which enter suitable threaded apertures in a plate or washer 13, which latter are respectively secured to or countersunk in the outer faces of the heads or end members 10, and are held in position

in any desired or suitable manner, preferably by means of screws or bolts 14 passing therethrough and into the heads or end members 10. This hub or axle 11 is preferably hollow or tubular, as shown. Suitable washers 15 surround the hub or axle 11 adjacent the inner face of the heads or end members 10, and these washers are secured against longitudinal movement on the hub or axle 11 in any desired or suitable manner, preferably by means of screws or bolts 16 passing therethrough and into suitable apertures in the hub or axle 11, and said washers 15 serve as means for holding the buffer member in position.

The buffer member is supported by and surrounds the hub or axle 11 intermediate the ends or head members 10, and said buffer member may be constructed of any desired or suitable material, but is preferably constructed of fabric 17, such as canton flannel or the like, preferably cut in the form of disks having a central aperture there-through, by means of which they may be threaded upon the hub or axle 11. These disks or members may be spaced from each other by spacing disks or members 18, constructed of any suitable material, or if desired, may be constructed of the same material of which the disks or members 18 are constructed. When the disks or members 17 have been threaded upon the hub or axle 11, the washers or members 15 are then placed upon the axle and a suitable number of the washers or spacing members 18 may be supplied intermediate a disk or member 17 and the washer or member 15 so as to cause the latter to clamp the disks or members 17 upon the hub or axle 11 to prevent longitudinal movement thereof with respect to the axle or hub. Any desired number of these disks or members 17 may be provided to form a buffer member of the desired length, and said buffer member is of such a diameter as to project for some distance beyond the hub or axle 11.

Secured to one face of the heads or end members 10 and projecting laterally therefrom are brushes 19, which may be constructed of any desired or suitable material, but preferably of bristles which are of a different texture or degree of flexibility than the buffer member 17. These brushes are preferably arranged so as to surround the

inner face of the head or end member 10, adjacent the periphery thereof to form an intermediate or centrally disposed space 20.

When the buffer member 17 has been secured upon the hub or axle 11 in the manner as above described, the heads or end members 10 may be attached to the respective extremity of the hub or axle 11 by means of the threaded extremity 12 engaging the aperture in the plate or washer 13, and said heads or end members are secured to the hub or axle 11 in such a manner that the laterally projecting brushes 19 will extend toward each other and also toward the buffer member 17. The movement or adjustment of the heads toward each other is limited by their engagement with the washers 15. When in position the washer or member 15 will stand within the space 20 formed by the brushes 19 on the respective heads or end members 10, and the diameter of the buffer 17 is such that the respective end thereof will project slightly into the space 20. When thus assembled the brushes 19 will extend for some distance beyond the periphery of the buffer member 17.

In use the brushes and buffer are so placed with relation to the ordinary stationary support that the buffer member 17 will engage and rest upon the top of the shoe of the operator when he places his foot upon the stationary support in the usual manner. The space between the extremities of the brushes 19 being somewhat wider than the width of the shoe so that as the brush is rotated the buffer 17 will polish the surface of the shoe while the laterally projecting brushes 19 carried by the heads or end members 10 will engage the sides of the shoe and the edges of the sole, and while the brush is being rotated the operator may move his foot sidewise or longitudinally with respect to the hub or axle 11, so as to cause the side brush 19 to engage the entire surface of the edge of the shoe, at the same time causing some of the bristles to enter and remove the dirt from the crease formed at the junction of the upper with the shoe sole.

In the modification shown in Fig. 3 of the drawing the head or end member 10 is provided with a reduced peripheral portion 21 to form a shoulder 22, and a suitable flexible rubbing member 23, such as canton flannel or the like, is secured to the head or end member by wrapping a continuous strip around the shoulder 22 formed by the reduced portion 21 to such a thickness that the outer layer thereof will stand substantially flush with

the periphery of the head or end member 10. This rubbing member 23 may be secured to the head in any desired or suitable manner such as by means of a strip of flexible material 24, which surrounds the periphery of the head or end member 10, and is of such a width as to slightly overlap the adjacent edge of the rubbing member 23, and said strip 24 is held in position preferably by means of nails 25 which pass therethrough and into the head or end member 10, and by additional nails or screws 26 which pass through the flexible member 24, the flexible member 23 and into the shouldered portion 22 of the head or end member 10. When so desired, the heads or end members 10 carrying the brushes or bristles 9 may be detached from the hub or axle 11, and the modified form of head or end member shown in Fig. 3 with the rubbing member 23 secured thereto, may be substituted therefor, and when so substituted the washers or members 15 together with the respective ends of the buffer member 17 will stand within the space 27 formed by the shouldered portion of the head or end member 10 and the surrounding flexible member 23.

In order that the invention might be fully understood by those skilled in the art, the details of the foregoing embodiment thereof have been thus specifically described, but

What I claim as new and desire to secure by Letters Patent, is:

In a brush, the combination of an axle, a polishing member comprising a plurality of pieces of fabric threaded upon the axle, the ends of the axle projecting beyond the fabric, washers surrounding the ends of the axle beyond the fabric for clamping the fabric pieces together, means for securing the washers against longitudinal displacement with relation to the axle, heads secured to the extremities of the axle beyond the washers, said heads being of a larger diameter than the diameter of the fabric pieces, and bristles secured to the inner faces of the heads, said bristles surrounding the washers and projecting toward each other and extending beyond the ends of the polishing member.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 4th day of May, A. D. 1907.

JOHN A. BREWER.

Witnesses:

NATHAN E. BAILEY,
CHAS. E. TOWNSEND.