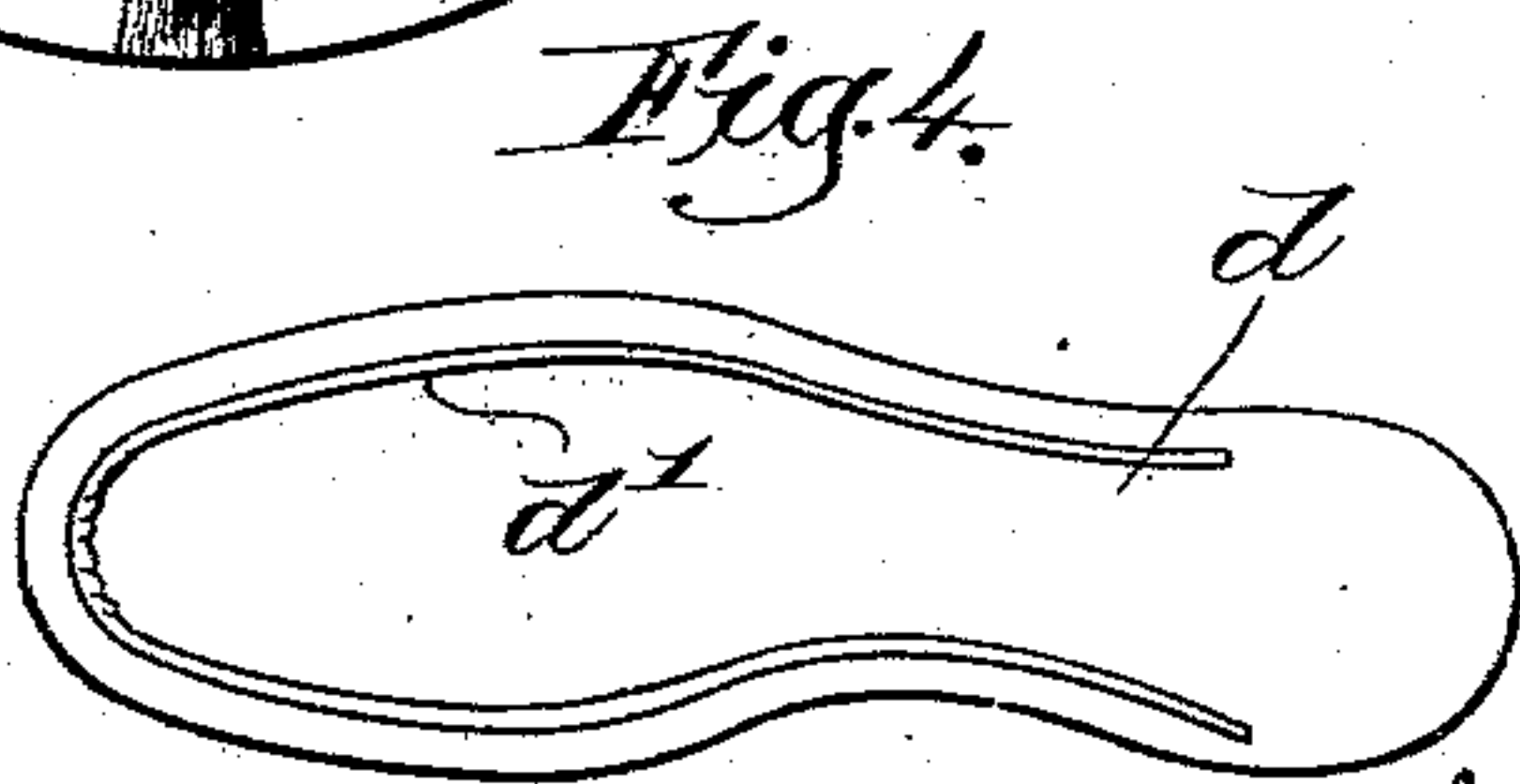
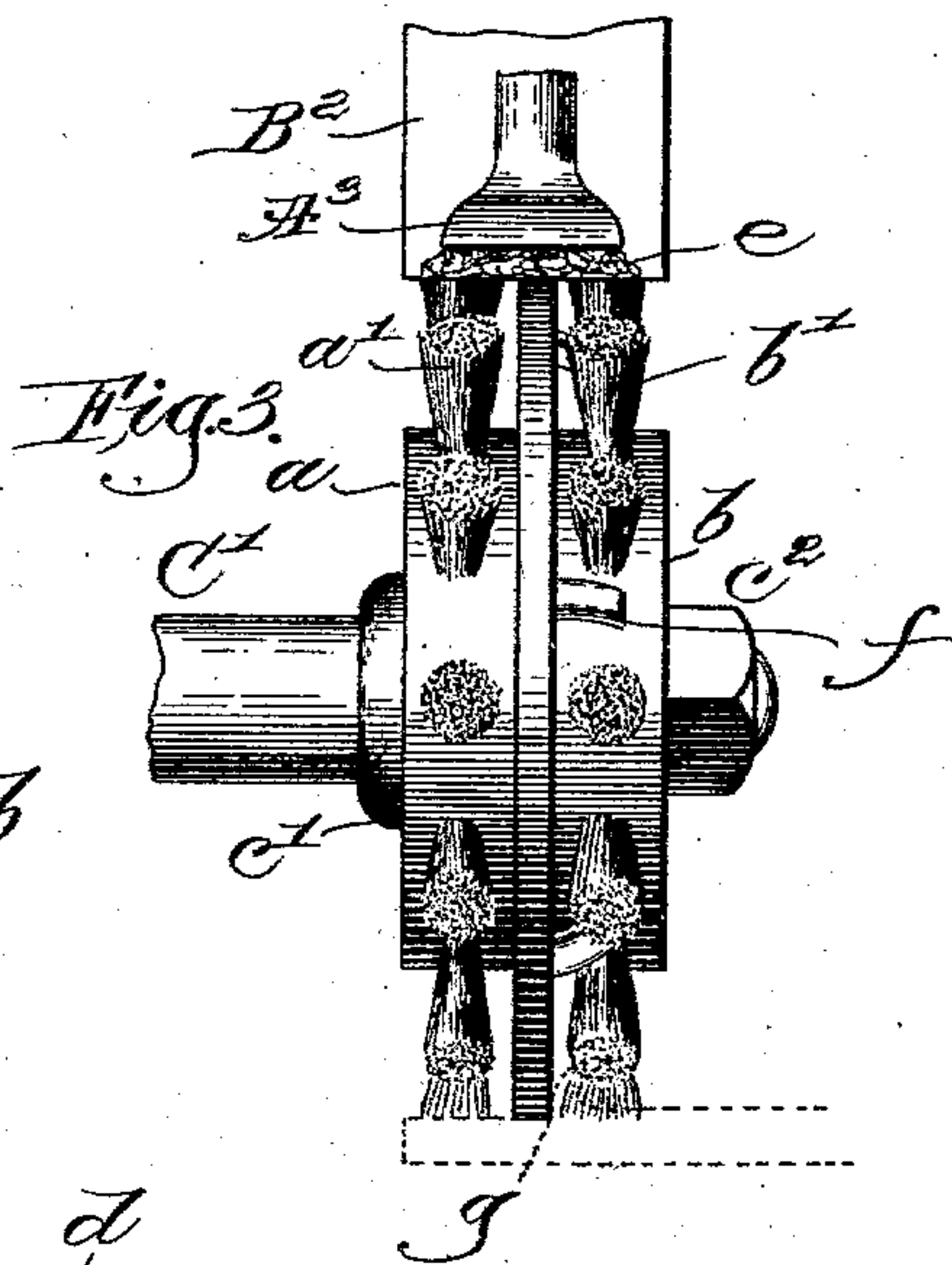
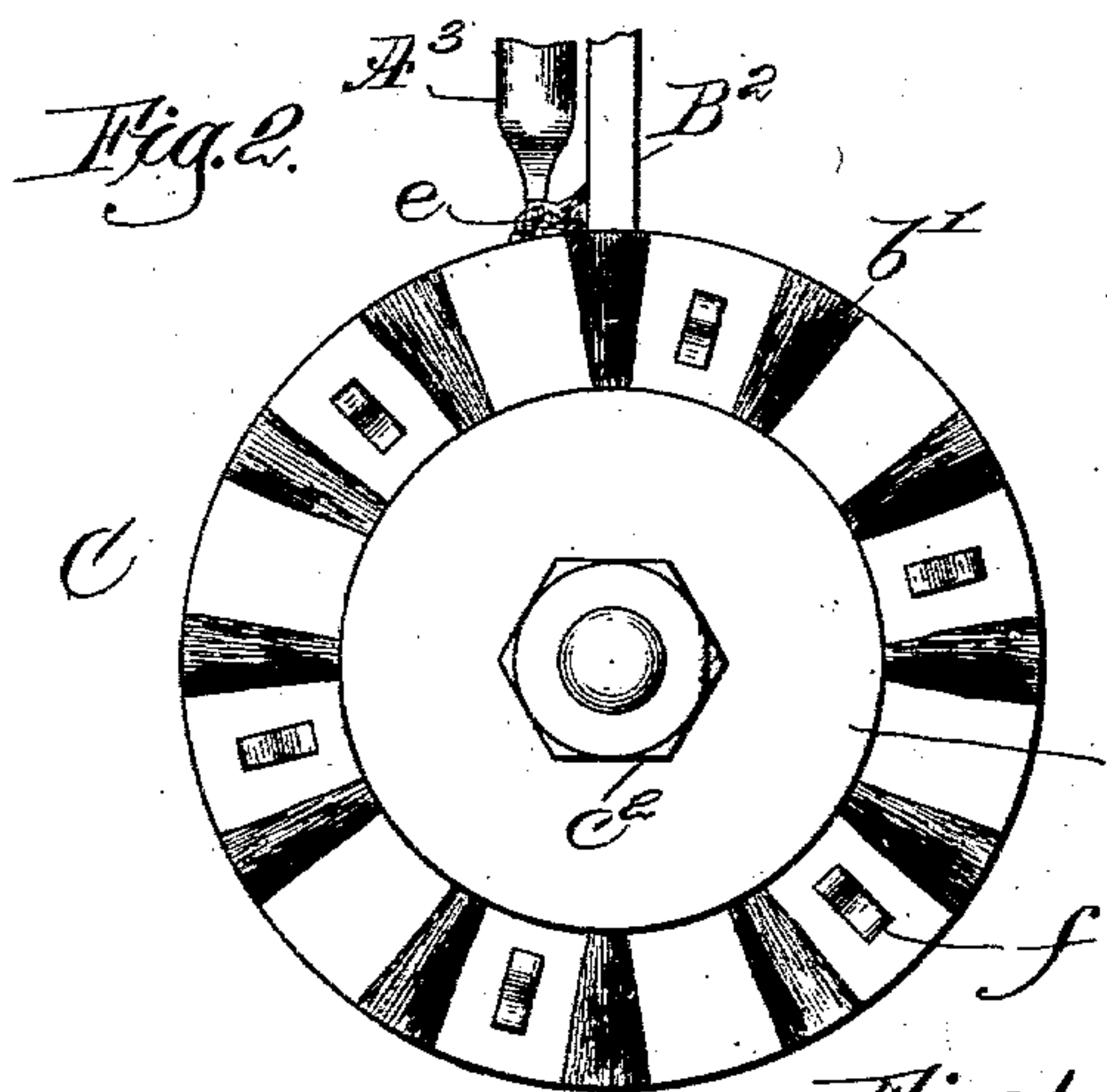
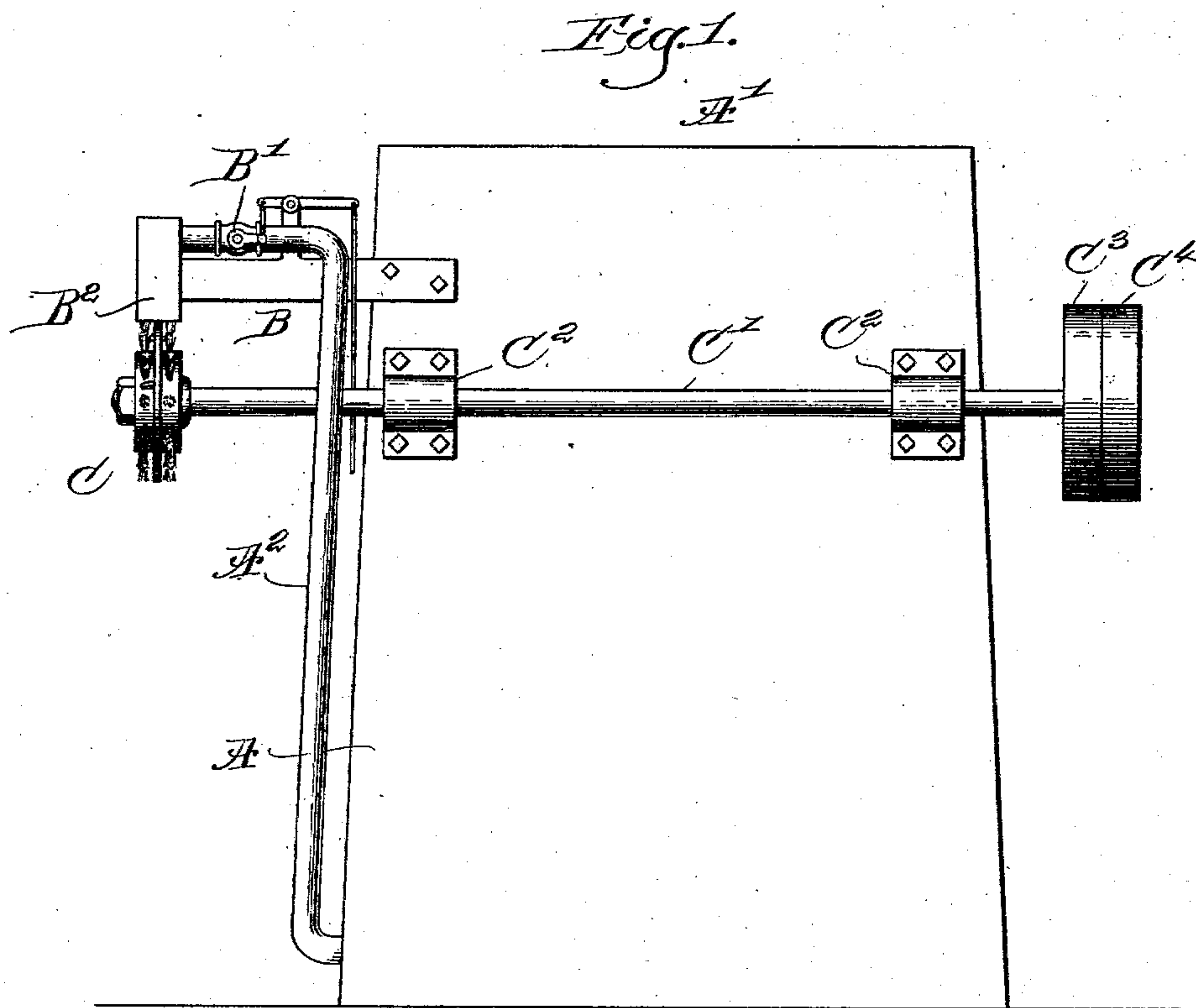


No. 743,929

PATENTED NOV. 10, 1903.

G. L. ROLLINS.  
APPARATUS FOR APPLYING CEMENT TO SOLES.  
APPLICATION FILED APR. 28, 1903.

NO MODEL.



Witnesses:  
Thomas J. Drummond,  
J. Wm. Lutton.

Inventor:  
George L. Rollins,  
by Crosby & Gregory  
attys.



# UNITED STATES PATENT OFFICE.

GEORGE L. ROLLINS, OF BRIDGEWATER, MASSACHUSETTS.

## APPARATUS FOR APPLYING CEMENT TO SOLES.

SPECIFICATION forming part of Letters Patent No. 743,929, dated November 10, 1903.

Application filed April 28, 1903. Serial No. 154,633. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE L. ROLLINS, a citizen of the United States, residing at Bridgewater, in the county of Plymouth and State of Massachusetts, have invented an Improvement in Apparatus for Applying Cement to Soles, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the production of novel apparatus to be used for applying cement to soles, and more especially to the channel and the backwardly-turned channel-flap of a sole preparatory to laying the flap in place to cover fastenings that have been inserted in the channel in attaching the sole to the shoe.

Figure 1, in side elevation, illustrates my invention in such form that it may be understood; Fig. 2, an enlarged side elevation of the brush detached; Fig. 3, a detail showing the brush in edge view with part of the shaft carrying the brush and the means for distributing the cement; and Fig. 4 is a plan view, on a smaller scale, showing the face of a channeled sole with its flap outturned.

The box or vat A is supposed to be filled with india-rubber or other usual or suitable cement, the vat being closed by a cover A', that seals the vat substantially air-tight. The vat has a delivery-pipe A<sup>2</sup>. In practice the cement in the vat will be pumped therefrom through the pipe A<sup>2</sup> and be discharged through the nozzle A<sup>3</sup> at the end thereof. The nozzle is sustained in its operative position by a brace B, secured, as shown, to the box. The pipe A<sup>2</sup> has a valve B', by which to check or permit the flow of cement from the nozzle, and in practice the vat will have suitable air-inlets controlled by a cock.

The parts so far described are not claimed, as they are in common use.

The box or vat has suitable bearings C<sup>2</sup>, in which is mounted a shaft C', provided with usual fast and loose pulleys C<sup>3</sup> C<sup>4</sup>, by which through a belt to move said shaft at any desired speed. The shaft carries the brush, herein represented as composed of blocks a b, having, respectively, a series of tufts of bristles a' b' and a circular guide between the

rows of bristles, said guide having its edge arranged substantially in the line of the ends of the bristles. The outer or left-hand side (see Fig. 3) of the block a abuts a collar c' on the shaft C', and between these two blocks I prefer to apply the circular guide, keeping the two blocks and guide on the shaft by or through a suitable nut C<sup>2</sup>. In front of the nozzle in the direction of movement of the brush I arrange a dam B<sup>2</sup>, that acts to arrest any surplus of cement e, the cement being deposited by the brush upon the side of the dam and spreading outwardly thereupon, so that the bristles of the brush readily take the cement from the dam as the brush in its rotation passes under the edge of the dam.

It will be understood that the sole D, attached, let it be supposed, to a boot or shoe, has a channel-flap D' laid back to uncover the usual channel in the sole, in which channel is inserted the fastenings of whatever form used to confine the sole to the upper of the boot or shoe.

The side of the guide next the block a has a series of wipers f, that in the rotation of the brush act on the under side of the flap and aid in turning the same over, back, and away from the channel cut in the sole.

When applying the cement, the brush being moved at the proper speed, the operator will hold the shoulder g (see Fig. 3) of the channel or the junction of the flap with the sole against the outer edge of the guide. The series of bristles a' will apply cement to the exposed side of the channel-flap, while the bristles b' will apply cement in the channel. The cement having been applied to the flap and in the channel, the flap will be then turned down to close the channel and hide the fastenings.

The apparatus herein described is also very useful for applying cement to an inner sole which is to be covered at one side with canvas or any other thin material to form a facing therefor, also to apply cement to the filling or intersole material interposed between an inner and outer sole, and also to apply cement to the inner face of an outer sole to contact with the filling or intersole.

I have referred in the specification to using cement; but I consider should paste be used



that my invention would not be departed from, and so, also, by the term "cement" as used in the claims I intend to cover any cementitious or sticky substance—as, for instance, paste or any usual substitute employed in the manufacture of boots and shoes.

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

10 1. In apparatus for applying cement to the channeled portion of a sole, a guide, and bristles at each side thereof.

2. In apparatus for applying cement to the channeled portion of a sole, a guide, a brush  
15 having bristles at each side said guide, means

to rotate said brush and its guide, and means to supply cement to both series of bristles.

3. In apparatus of the class described, a brush having a guide provided with flap-wiping means, cement-supplying means, and 20 means to move the brush and guide, to operate substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEO. L. ROLLINS.

Witnesses:

GEO. W. GREGORY,  
EDITH M. STODDARD.