

J. F. NOONAN.
MACHINE OR DEVICE FOR CLEANING INSOLES.
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914,448.

Patented Mar. 9, 1909.

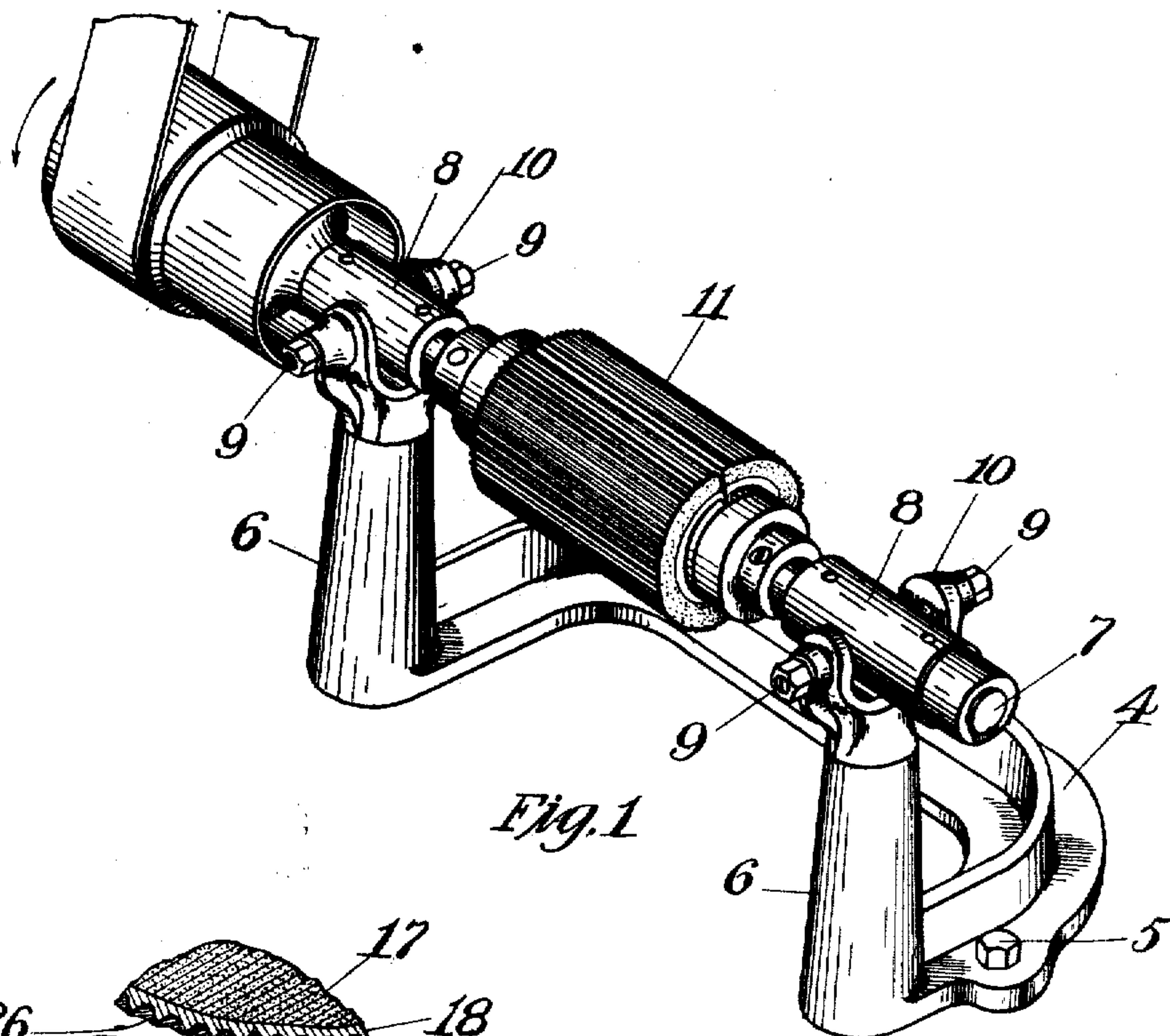


Fig. 1

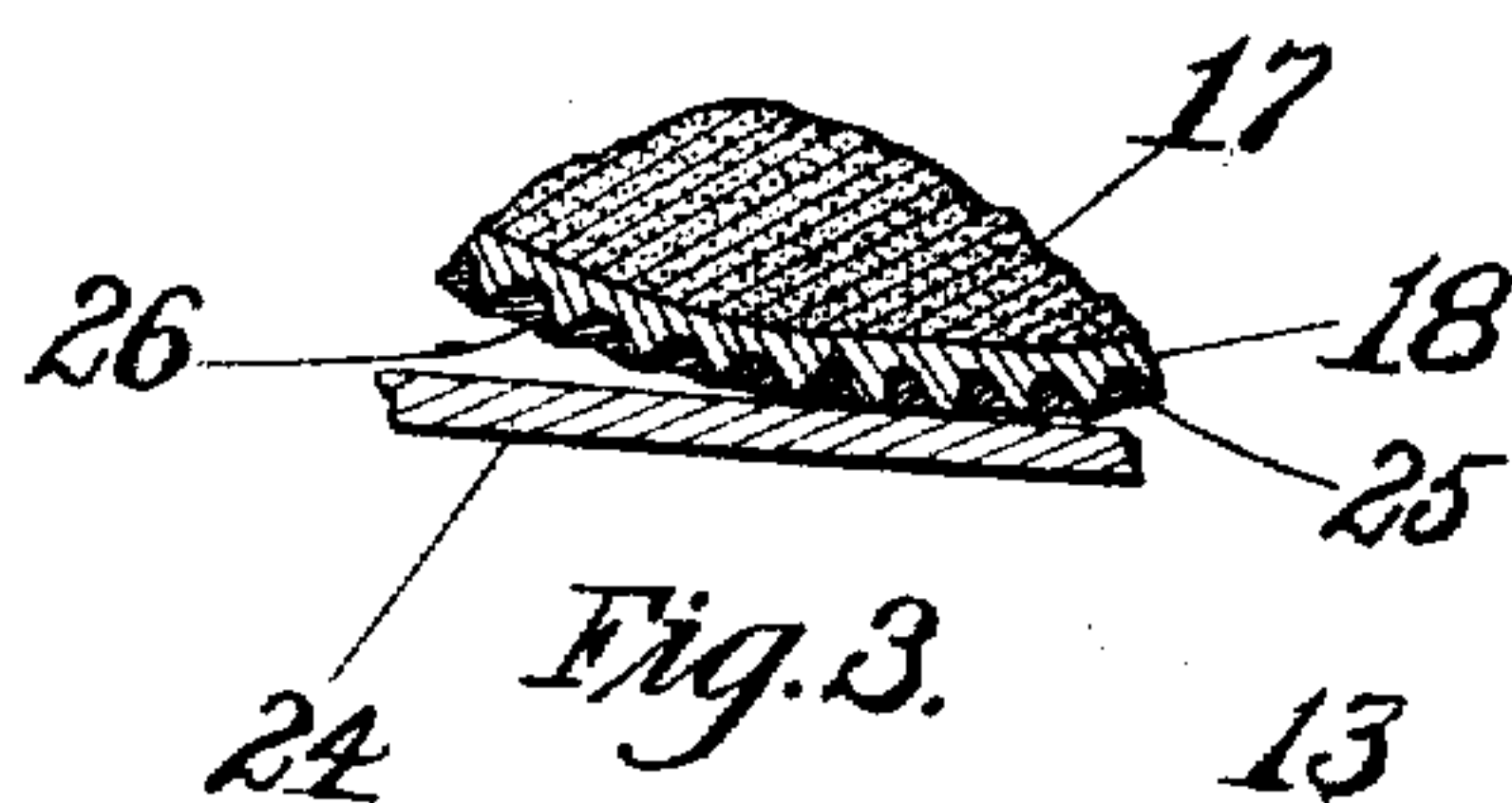


Fig. 3.

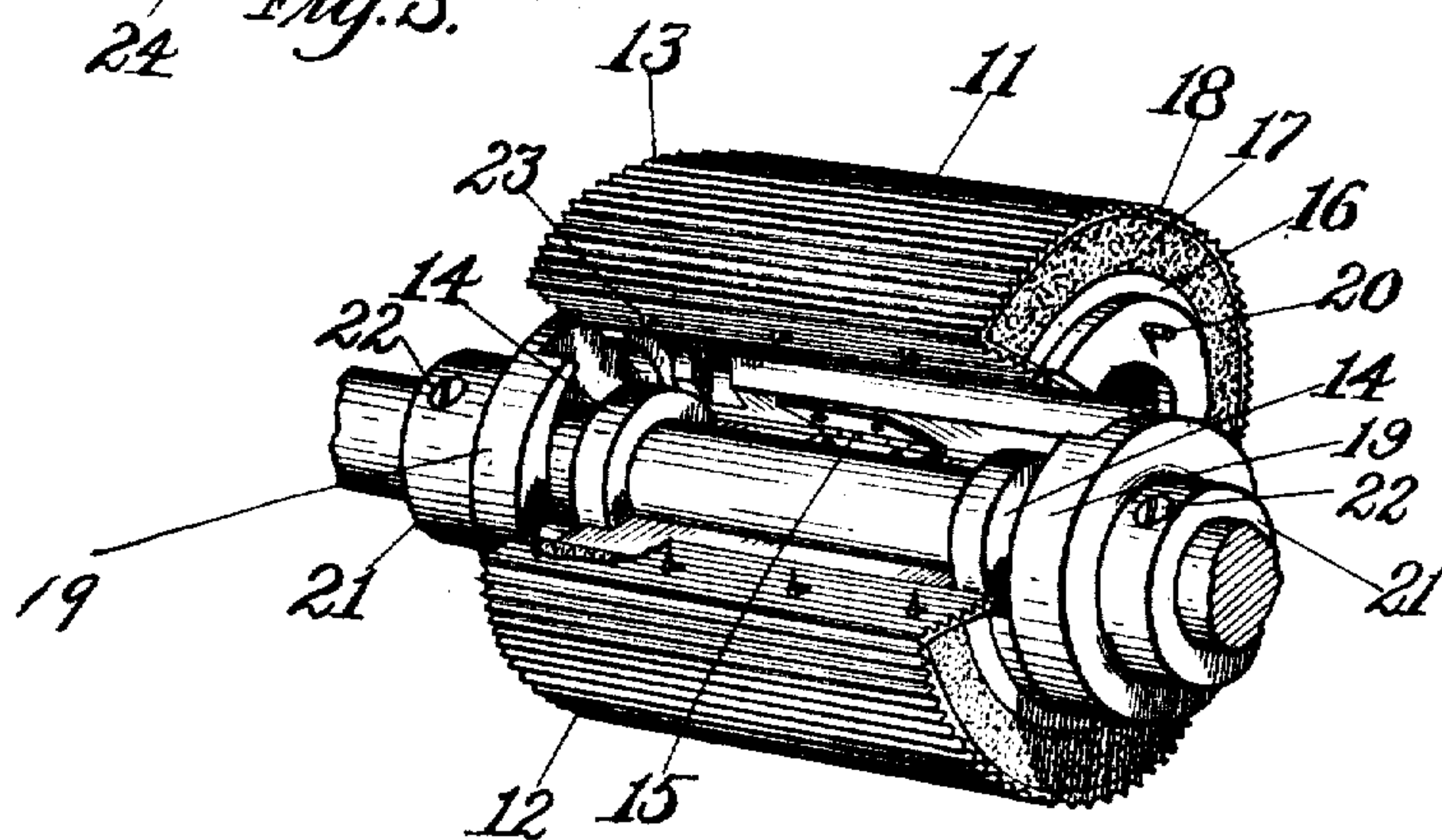


Fig. 2.

WITNESSES.
Benjamin H. Hathaway
Elizabeth C. Couper

INVENTOR.
James F. Noonan
By his Attorney
Nelson H. Howard

UNITED STATES PATENT OFFICE.

JAMES F. NOONAN, OF LYNN, MASSACHUSETTS, ASSIGNOR TO UNITED SHOE MACHINERY COMPANY, OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

MACHINE OR DEVICE FOR CLEANING INSOLES.

No. 914,448.

Specification of Letters Patent.

Patented March 9, 1909.

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To all whom it may concern:

Be it known that I, JAMES F. NOONAN, a citizen of the United States, residing at Lynn, in the county of Essex and Commonwealth of Massachusetts, have invented certain Improvements in Machines or Devices for Cleaning Insoles, of which the following description, in connection with the accompanying drawings, is a specification, like reference characters on the drawings indicating like parts in the several figures.

This invention relates to machines or devices for cleaning insoles for boots and shoes, but more particularly for removing cement therefrom.

On account of the increased cost of leather and the necessity of turning out a low priced shoe, an insole of thin leather is now being used to which is cemented a layer of canvas or other suitable material for the purpose of stiffening the same. In this cementing process, it is practically impossible to prevent some of the cement or glue getting upon the uncovered face of the insole. When this is allowed to remain in the finished shoe, it is a great source of discomfort to the wearer, as the warmth of the foot causes it to melt and to adhere to the stocking. Heretofore, it has been necessary to employ skilled workmen and to expend a considerable amount of time in the making of this type of insole to prevent the cement getting upon the face thereof, as great difficulty was encountered in removing the same without marring the surface of the leather. A simple method of removal of this cement would make a material reduction in the cost of the insole.

One feature of this invention is the use of a surface, provided with an adhesive material, to clean another surface.

Another feature consists in using a corrugated or roughened holding surface to provide a firm hold for this adhesive material. Preferably this holding surface is pliable or elastic.

It should be understood that the invention is not limited to any particular type of holding surface or to the cleaning of any particular article or class of articles.

One construction embodying the several features of the invention is shown in the drawings and consists in a cylinder or other suitably formed body, mounted upon a shaft rotating in journal boxes in the frame. For convenience in removing the holding sur-

face, a sectional body may be used, of a form to be described hereinafter.

In the drawings:—Figure 1 is a perspective view of one form of the holding body. Fig. 2 is a similar view of the holding body detached, showing sections thereof, opened, as will be described hereinafter. Fig. 3 is a sectional view of a small portion of the covering of the holding body.

In the drawings, 4 is a bed or support to be fastened by bolts 5 to a table or other foundation, with supporting posts 6 to carry the shaft 7 seated in the journal boxes 8. These journal boxes are held by stud bolts 9 in lugs 10 on the posts 6, so that they may easily be removed or centered. Upon the shaft 7 is placed the holding body 11, which will hereinafter be referred to as the holder. This holder may consist of a solid or otherwise constructed body, but an advantageous form is shown in Fig. 2, consisting of two parts, a fixed and a movable section, designated respectively by 12 and 13. The fixed section 12 is attached to collars 14, 14 upon the shaft 7 and the movable section 13 to the fixed section by the hinge 15. These sections consist of a core 16, preferably of wood, a layer of felt 17 outside thereof, which may be cemented to it, and a thin rubber cover 18 to be more fully described hereinafter. Rotatably placed upon the shaft 7 are two cams 19, 19, one being on each side of the holder, which may be turned into engagement with respective pins 20, 20 upon the movable section to clasp the same to the fixed section. The collars 21, 21, movably placed upon the shaft, are provided with set screws so that they may be rigidly fastened upon the shaft. These may be pressed against the cams 19, 19 forming friction washers for the same to prevent accidental rotation upon the shaft. The free edges of the sections 12 and 13 are provided with pins 23 to grip the rubber cover, as will be described more fully hereinafter.

In Fig. 3, 24 is a small portion of an insole, showing its position relative to the grooves 25 of the holder 11 during the cleaning operation. 26 shows the cement between the grooves.

The form of bed or support for the shaft is optional, but an advantageous type is shown in Fig. 1 of the drawings.

The method of placing the cover 18 upon the holder 11 is as follows:—One edge of a

sheet of rubber or other suitable material of proper size is pressed down upon the pins 23 on the fixed section; the other end is carried around the holder and attached to the pins 23 on the movable section. The sections are then closed together and the cams set as described.

The method of use of this type is as follows:—A coating of cement or other adhesive material is placed upon the holding surface of the device and allowed to partially harden. The shaft is then revolved, preferably in the direction of the arrow shown in Fig. 1, and an insole, held in both hands by the operator, is wiped on the under surface of the holder in the opposite direction to the motion of that face. The adhesive material, clinging to the holding surface, removes all matter upon the surface of the insole, leaving it perfectly clean.

Having described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:—

1. A device for removing cement or the like from the surface of leather, constructed for rubbing contact with the leather to be cleaned and provided upon its acting surface with a series of recesses and with hardened viscid material contained in said recesses.

2. A device for removing cement or the like from the surface of leather, constructed for rubbing contact with the leather to be cleaned and provided with a corrugated surface of yielding, elastic material and a layer of adhesive material sustained upon said surface.

3. A machine for removing cement or the like from the surface of leather, comprising a movable member constructed for rubbing contact with the surface to be cleaned and provided with a roughened acting surface and with adhesive material sustained upon said surface.

4. A machine for removing cement or the like from the surface of leather comprising a rotary member constructed for rubbing contact with the surface to be cleaned and provided with a roughened acting surface of yielding material and with an adhesive sustained upon said surface.

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

JAMES F. NOONAN.

Witnesses:

BERNARD BARROWS,
H. DORSEY SPENCER.