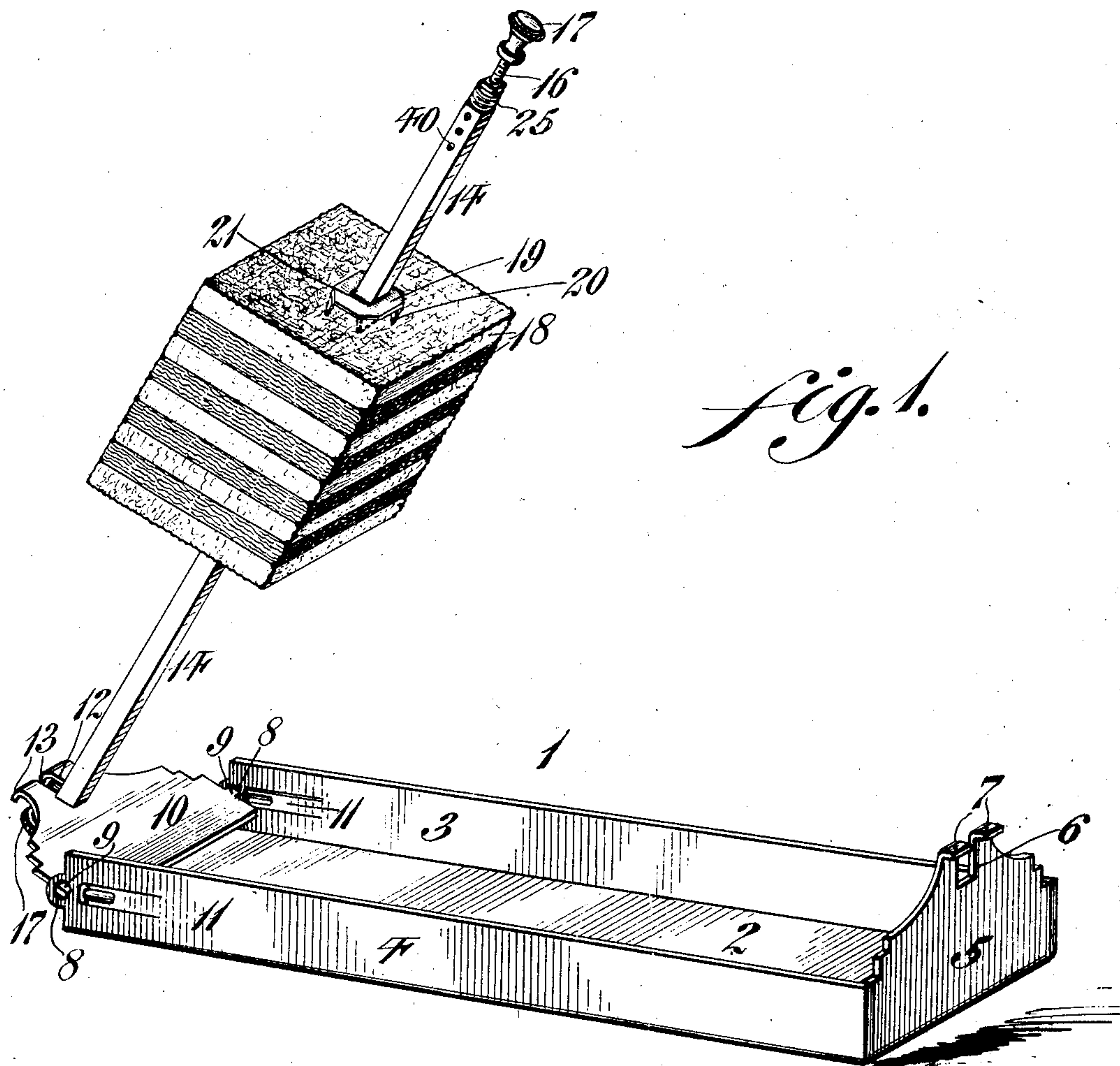


No. 896,676.

PATENTED AUG. 18, 1908.

E. WILSON.  
SHOE BRUSH OR POLISHER.  
APPLICATION FILED DEC. 26, 1907.

3 SHEETS—SHEET 1.



*Fig. 1.*

Witnesses

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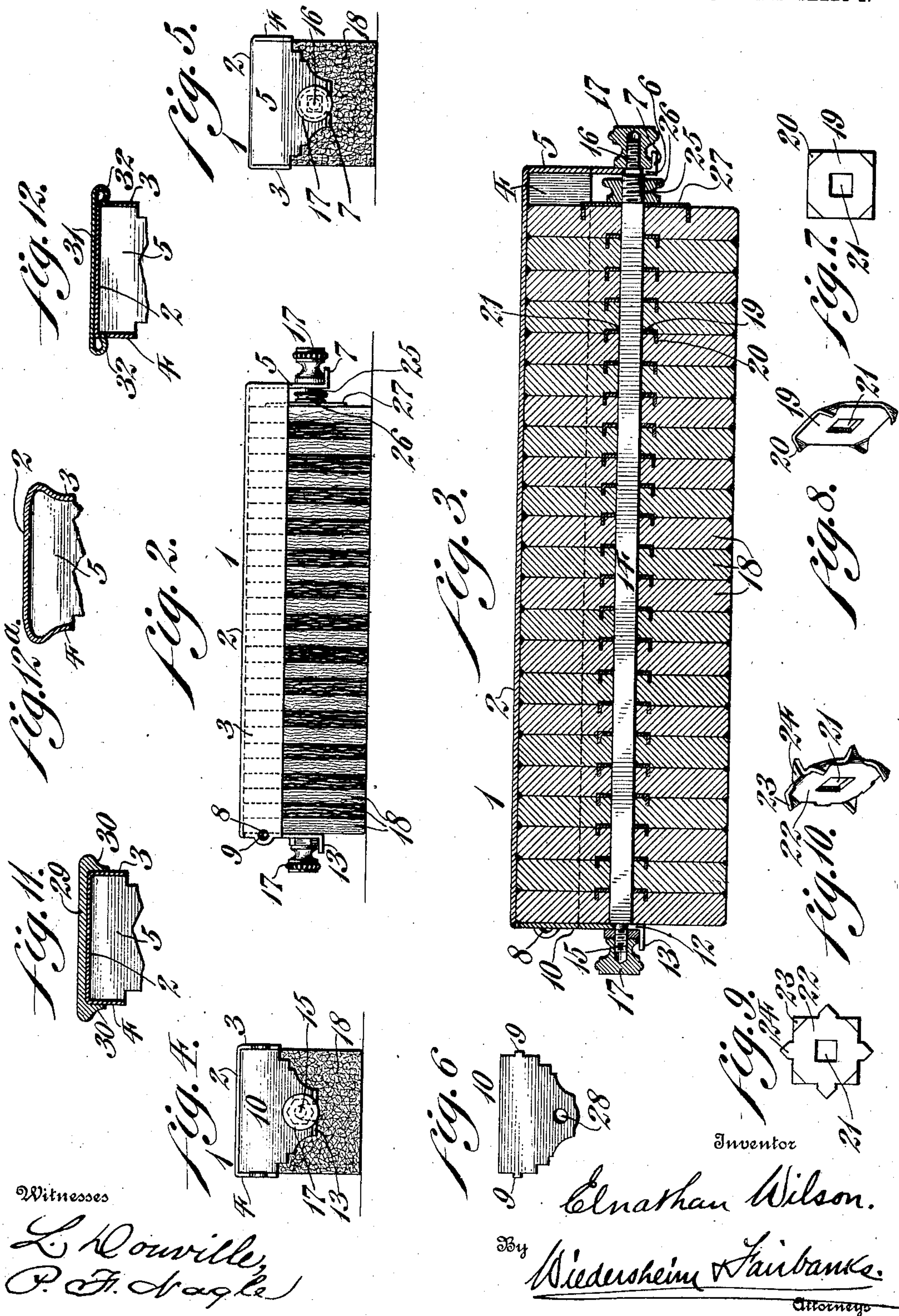
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3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

Fig. 13.

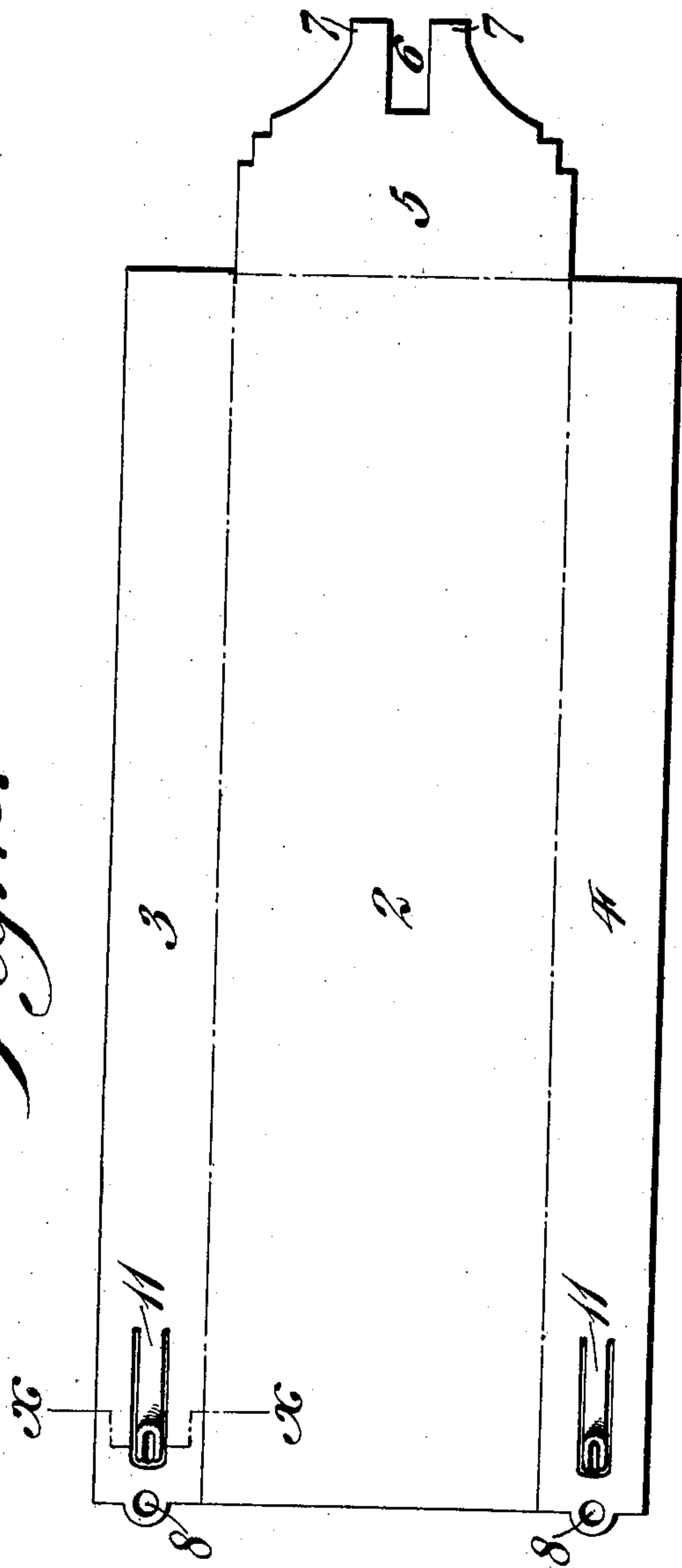


Fig. 14.

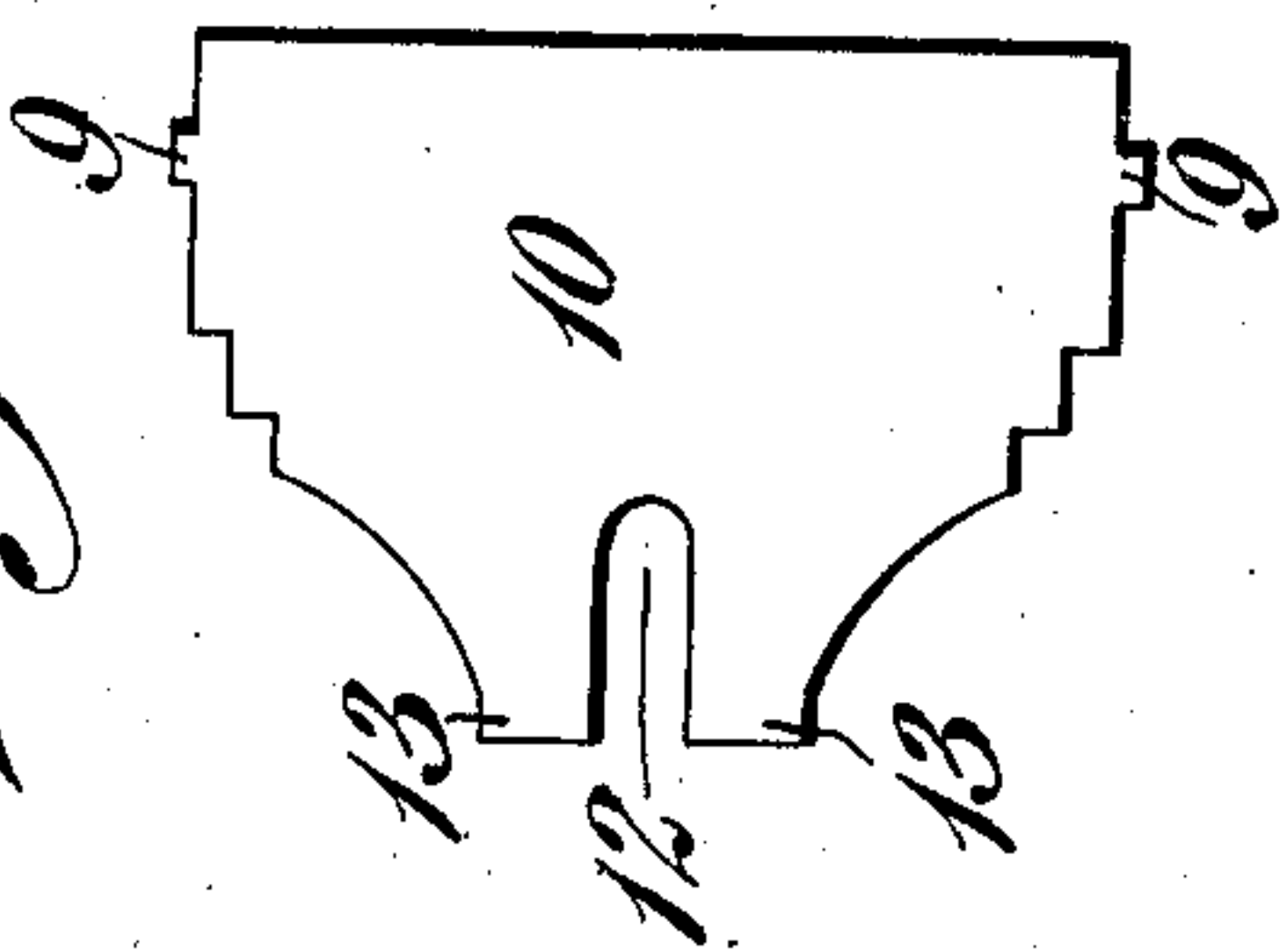


Fig. 16.

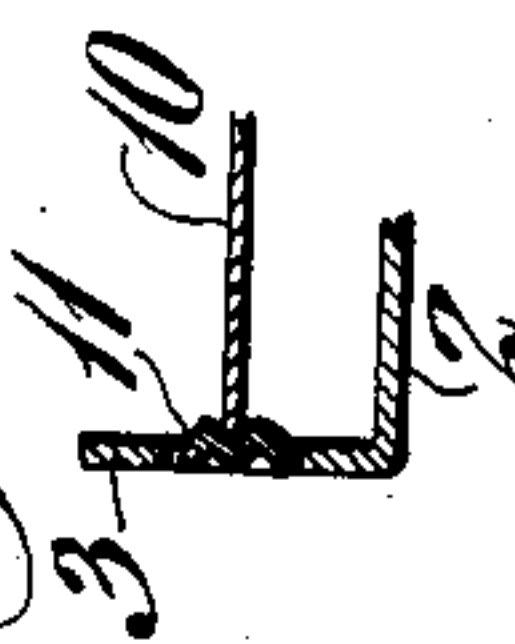


Fig. 15.

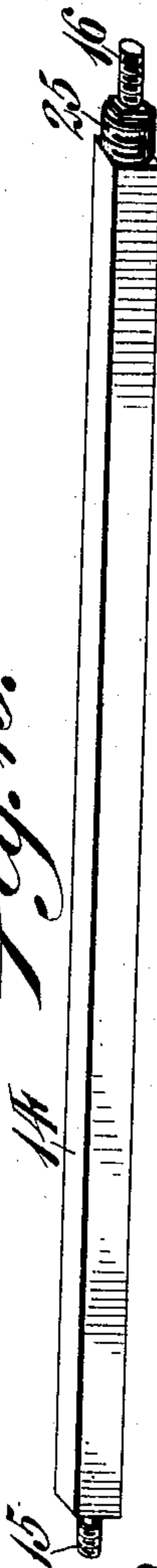


Fig. 19.

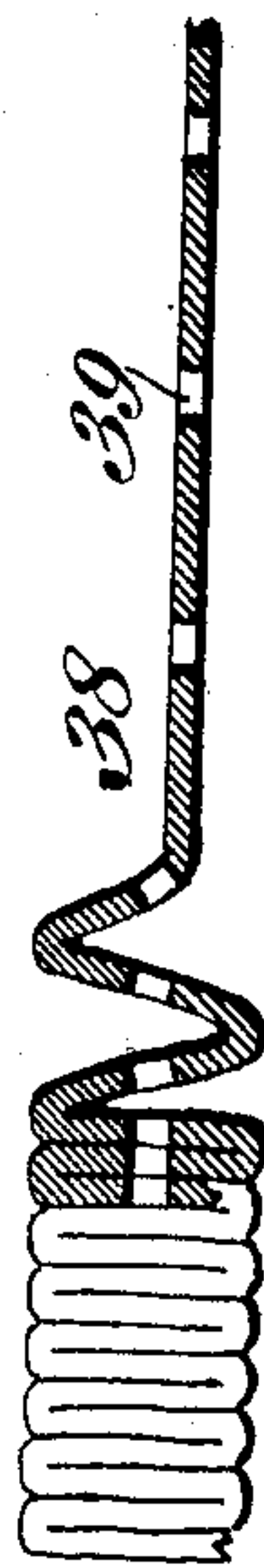


Fig. 17.

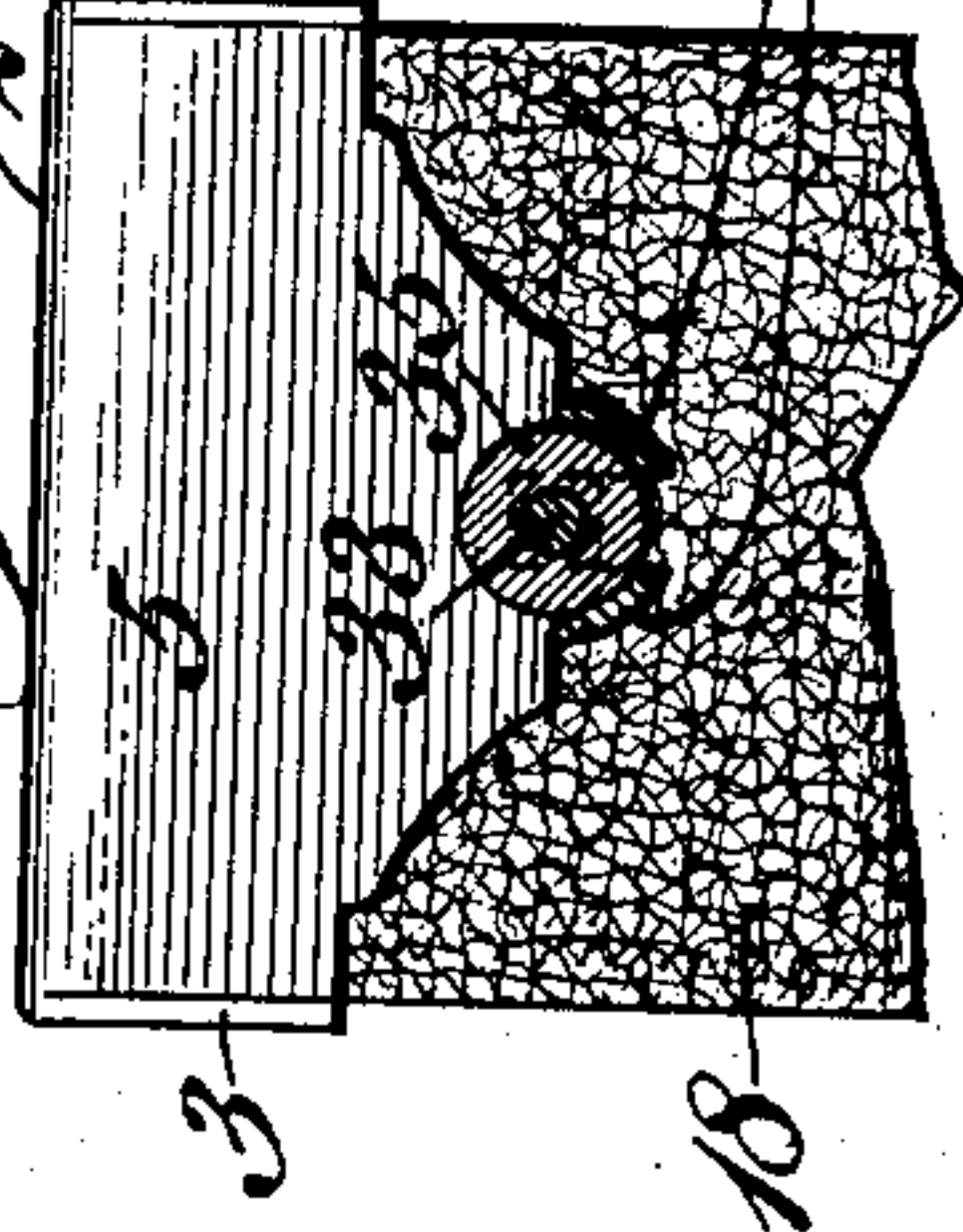


Fig. 18.

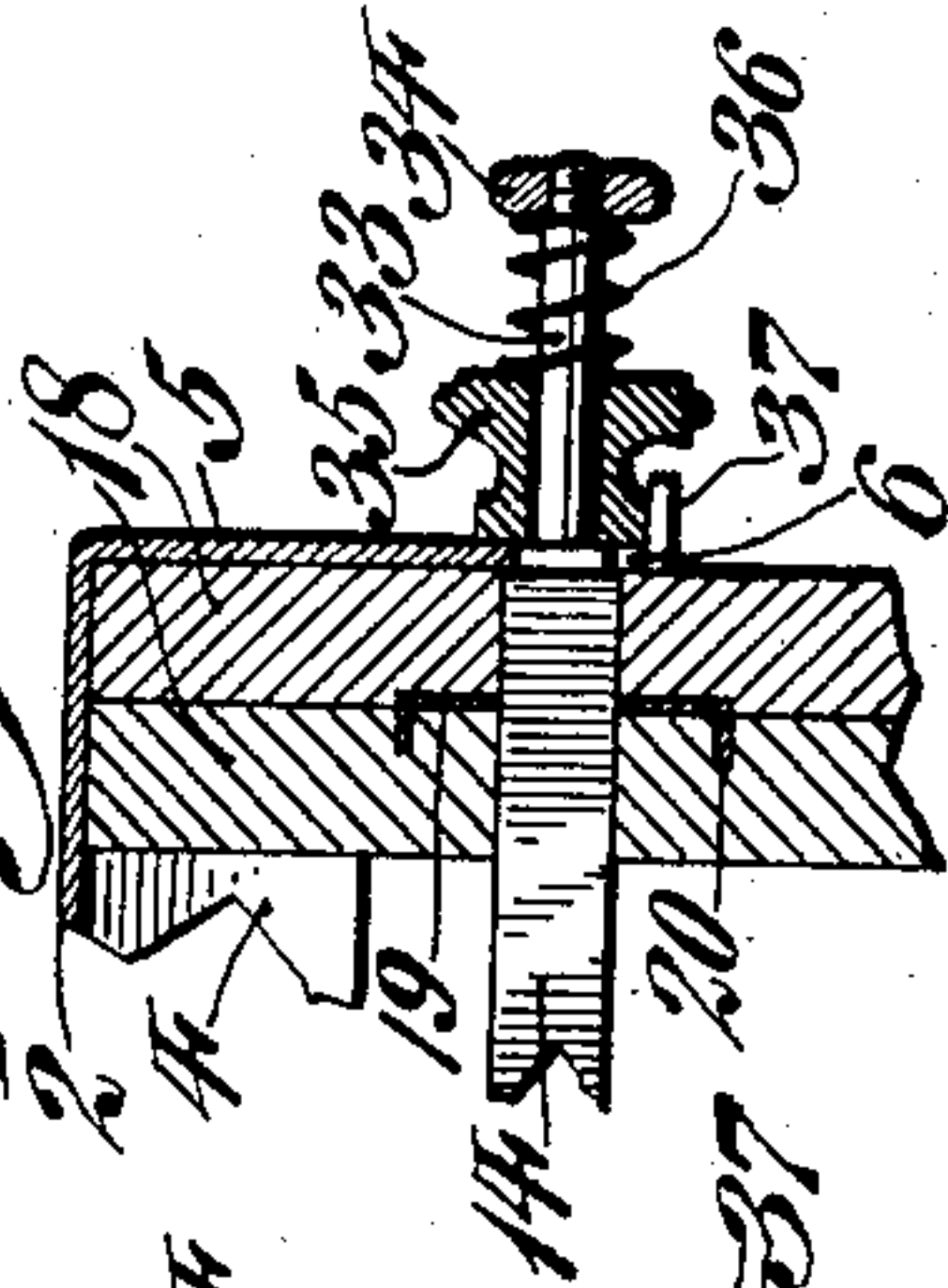
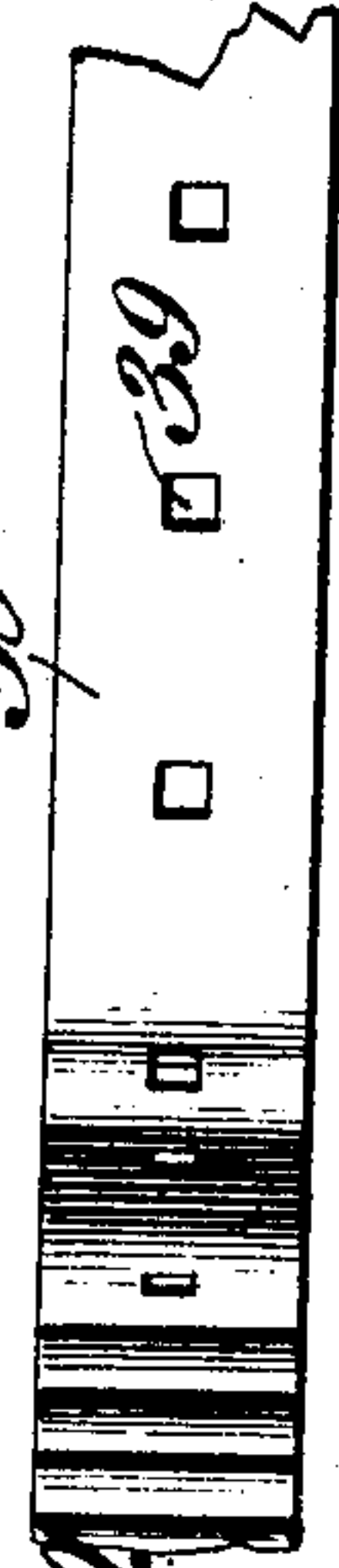


Fig. 20.



Witnesses

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# UNITED STATES PATENT OFFICE.

ELNATHAN WILSON, OF PHILADELPHIA, PENNSYLVANIA.

## SHOE BRUSH OR POLISHER.

No. 896,676.

Specification of Letters Patent.

Patented Aug. 18, 1908.

Application filed December 26, 1907. Serial No. 408,191.

*To all whom it may concern:*

Be it known that I, ELNATHAN WILSON, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Shoe Brush or Polisher, of which the following is a specification.

My invention relates to a new and useful shoe brush or polisher and consists in providing a permanent handle or back with removable polishing means and with means whereby the various faces can be placed in operative position without handling by the operator.

It further consists of novel means for mounting the polishing means and securing the same in proper position.

It further consists of other novel features of construction, all as will be hereinafter fully set forth.

Figure 1 represents a perspective view of a shoe brush or polisher, embodying my invention, showing the device in position for changing the surfaces to be used. Fig. 2 represents a side elevation of the brush on a smaller scale. Fig. 3 represents a sectional view, on an enlarged scale, showing different features. Figs. 4 and 5 represent elevations of the opposite ends of the brush. Fig. 6 represents an elevation of one end of the brush in detached position. Fig. 7 represents a blank form on which the washers are made. Fig. 8 represents a perspective view of one of the washers. Fig. 9 represents a blank for a different form of washer. Fig. 10 represents a perspective view of a washer formed therefrom. Figs. 11, 12 and 12<sup>a</sup> represent sectional views showing different forms of backs which may be employed. Fig. 13 represents a blank from which the frame of the device is made. Fig. 14 represents an end which may be employed. Fig. 15 represents a perspective view of the rod employed. Fig. 16 represents a sectional view on line  $x-x$ , Fig. 13. Fig. 17 represents an end elevation showing a different form of nut which may be employed, with a portion of the polishing means broken away. Fig. 18 represents a sectional view of a portion of the device shown in Fig. 17. Fig. 19 represents a partial elevation and partial sectional view of a different form of polishing means which may be employed. Fig. 20 represents a plan view thereof.

I have found in practice in shoe brushes or polishers now in use, which employ felt

or other suitable material as the polishing means, that in order to place the different faces on the polishing means in operative positions, it is necessary to grasp the same in order to turn the material and as the faces already used have become dirty, this is objectionable.

My invention is designed to overcome this defect and to provide a new support for the polishing means.

In the drawings, I have shown a construction for carrying out my invention but it is evident that various changes may be made therein and other instrumentalities may be used and I do not desire to be limited in every instance to the exact construction as herein shown and described, but desire to make such changes as may come within the scope of the invention.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings:—1 designates a brush or polisher formed of a body portion having a back 2, the sides 3 and 4 and the end piece 5, which is preferably rigid therewith, these parts being formed from the blank shown in Fig. 13, the end piece 5 being provided with a slot or recess 6 having the extending flanges or lugs 7 adjacent thereto. In the side pieces 3 and 4 I provide openings 8 forming journals for the extensions or wings 9 on the movable end piece 10, said end piece being thus pivotally supported and capable of being moved into the position seen in Fig. 1. Adjacent the openings 8 in the side pieces 3 and 4, I provide the spring clips or tongues 11, which are so arranged and situated as to engage with the side edges of the movable end piece 10 when the same are moved in the position seen in Fig. 1, in order to hold the parts in elevated position, as will be hereinafter described. See also Fig. 16.

The end piece 10 is provided with a recess or slot 12 and has the flanges or ears 13, similar to the ears or flanges 7 on the opposite end.

14 designates a rod or bar having a threaded pin 15 on one end and a threaded pin 16 on the opposite end, the same being adapted to receive the thumb nuts 17. The bar or rod 14 is squared and is adapted to receive the polishing means, in the present instance, shown as rectangular pieces of felt or other suitable material 18, provided with squared openings to seat upon the rod 14, said felt 18



being adapted to fit between the sides 3 and 4, which assists in holding the same in place, it being noted that when the parts are in operative position, the ends 15 and 16 on the bar 14 are seated in the recesses or slots 6 and 12 respectively and that by screwing up the thumb nuts 17 the parts are firmly locked in position and removal or displacement of the same is prevented by reason of the engagement of said thumb nuts 17 with the flanges or ears 7 and 13 respectively.

In order to turn the faces of the polishing means by releasing one of the thumb nuts 17, that is, unscrewing the same, the said nut is removed from beyond the plane of the ears 7 and the bar 14 with the polishing means 18, can be elevated, which turns the end piece 10 to the position seen in Fig. 1, the catches 11 engaging the side edges of the end piece 10 and holding the same in elevated position. By rotating the rod 14 the new surface of the polishing means is placed in the proper position and by again lowering the rod 14 and screwing up the thumb pieces 17, the parts are locked.

In some instances it may be necessary to provide washers 19 having the prongs or teeth 20 thereon, which latter are adapted to enter the material or polishing means 18, said washers being provided with a squared opening 21, which seats on the rod 14 by which means a firm and positive bearing is provided for the material 18 on the rod 14, so that any movement of the material 18 is prevented, this construction being clearly shown in Fig. 3 and the form of washer shown in Figs. 7 and 8. If necessary, I may provide a washer 22 having oppositely extending teeth 23 and 24, this construction being shown in Figs. 9 and 10. In order to further tighten the material 13 upon the rod 14, I may form the rod 14 with the threaded portion 25, which is adapted to receive a nut 26, so that by proper tightening of this nut 26 the polishing means is tightened on the rod 14 independently of the tightening action of the thumb nuts 17, said nut 26 being adapted to abut the washer 27, as seen in Fig. 3, it being understood that the washers 19 and 27 can be of any suitable size, although in the drawings I have shown the latter as of considerably greater extent than the former. In place of forming the end piece 10 with the slot 12, I can provide the same with an opening 28 for the reception of the threaded end 15, the operation being the same as heretofore described and this construction being clearly seen in Fig. 6. If the back 2 is not of sufficient strength or finish, I may provide the form shown in Fig. 11, which consists of a back piece 29 having the rounded edges 30 engaging with said back 2 and side pieces 3 and 4 forming a neat and attractive appearance.

In place of the wooden back piece 29, I

may form the back piece of metal, as shown in Fig. 12, the same consisting of a plate 31 having the inturned edges 32, as seen.

The rod 14 may be, if desired, formed with a pin 33 of suitable extent, having the nut 34 on its end and having a thumb piece 35 mounted to move freely on said pin 33, a spring 36 being mounted upon said pin 33 and extending between the nut 34 and thumb piece 35, said spring tending to normally hold said thumb piece 35 in suitable engagement with the end piece 5 and in suitable position with respect to the flanges or extensions 37, which are formed rounded, as clearly seen in Fig. 17, said flanges serving the same purpose as the flanges 7 shown in the other figures. By this means it will be seen that by compressing the spring 36 the thumb piece 35 can be released from engagement with the lugs 37 and the parts swung into the position seen in Fig. 1. In place of forming the felt or polishing material 18 in a single piece, I may form the same of a continuous strip 38 provided with square openings 39 and may fold the same into proper position, as seen in Fig. 19 with the openings 39 in alinement for the reception of the rod or bar 14.

If desired I may provide openings 40 arranged at intervals in the rod 14, which openings are adapted for the reception of the cotter pin or other suitable device, for the purpose of securing the material 18 in proper position on the rod.

In Fig. 12<sup>a</sup> I have shown another form of backing which may be employed, in which form I show rounded edges for convenience of gripping.

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

1. In a device of the character described, a body portion, an end member movably connected therewith, a rod extending longitudinally of said body portion and detachably secured to said member and said body portion, and polishing means carried by said rod.

2. In a device of the character described, a body portion, a rod removably attached thereto, polishing means mounted on said rod, and means intermediate said polishing means for preventing rotation thereof around said rod.

3. In a device of the character described, a body portion, an end member movably connected thereto, a rod detachably secured to said end member and said body portion, polishing means carried by said rod, and means to prevent rotation of said polishing means relative to said rod.

4. In a device of the character described, a body portion, a pivoted end piece, a rod connected therewith carrying polishing members, and means for locking said rod to said body portion.



5 5. In a device of the character described, a body portion, a pivoted end thereon, means for engaging said pivoted end for holding the same in one position, a rod carried by said end, having polishing members thereon and means for locking said rod to the opposite end.

10 6. In a device of the character described, a body portion having end pieces provided with slots, lugs adjacent said slots, a rod carrying polishing means, and means on said rod engaging said lugs for locking said rod in position.

15 7. In a device of the character described, a body portion, a bar, means for locking said bar with respect to said body portion, polishing means mounted on said bar, and means for tightening said polishing means on said bar.

20 8. In a device of the character described, a body portion, a bar adapted to be removably connected therewith, polishing means mount-

ed on said bar and washers intermediate said polishing means engaging the same and mounted in said rod for preventing rotation 25 of said polishing rods.

9. In a device of the character described, a body portion, spring arms formed in the sides of said body portion, a pivoted end piece mounted in said pieces adjacent said spring 30 arms, a bar carried by said pivoted end, a nut carried by said bar and locking the same with respect to the opposite end of said body.

10. In a device of the character described, a body portion, a rod pivotally secured there- 35 to, a polishing device comprising a plurality of sections secured to said rod, and independent means for locking each section to said rod.

ELNATHAN WILSON.

Witnesses:

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