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PATENTED OCT. 6, 1903.

W. A. BLAIN.  
SHOE JACK.

APPLICATION FILED SEPT. 9, 1902.

NO MODEL.

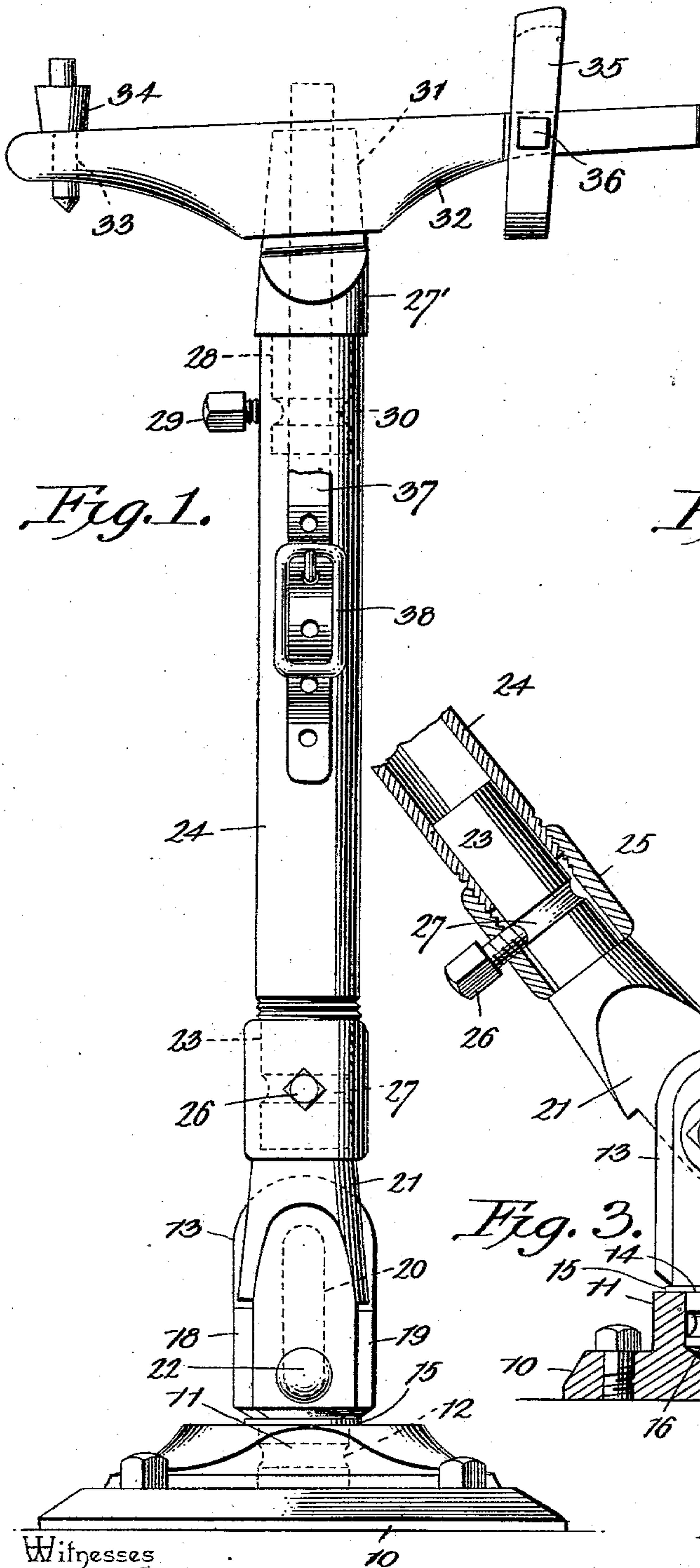


Fig. 1.

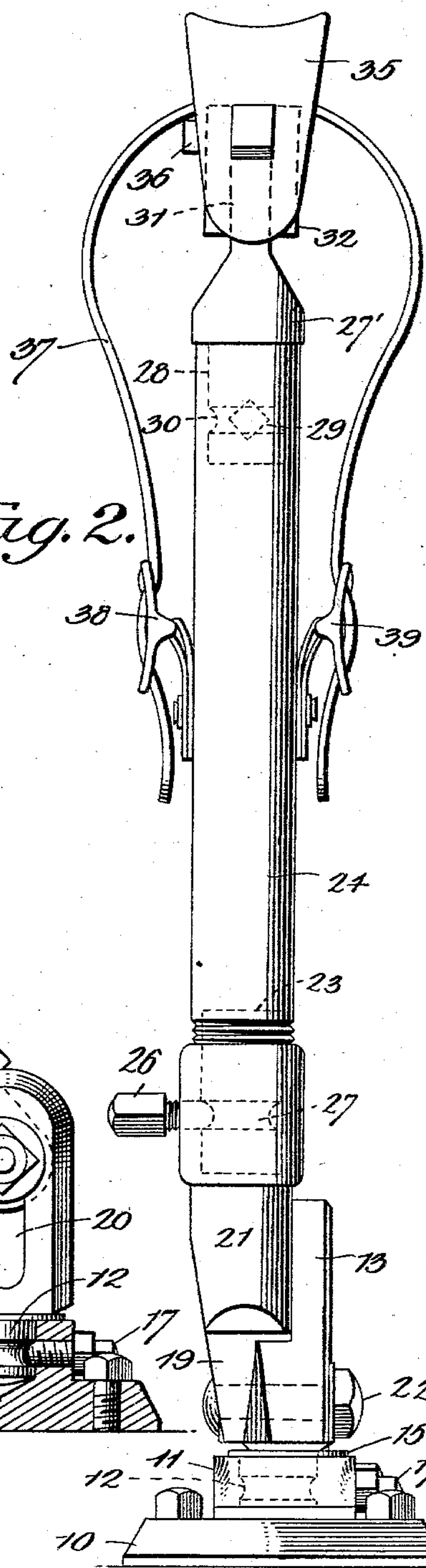


Fig. 2.

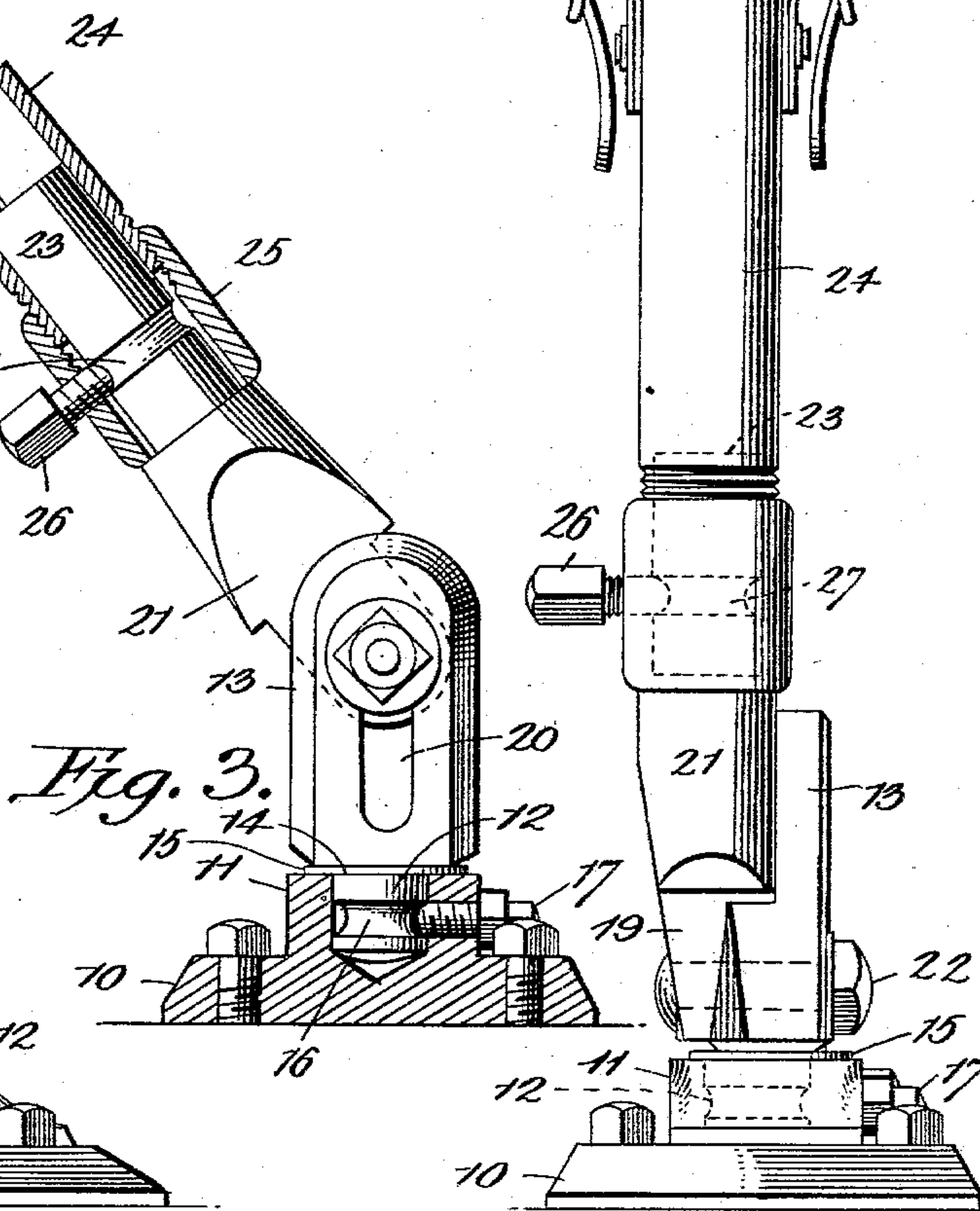


Fig. 3.

Witnesses  
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# UNITED STATES PATENT OFFICE.

WALTER ANDREW BLAIN, OF COLUMBIA, SOUTH CAROLINA.

## SHOE-JACK.

SPECIFICATION forming part of Letters Patent No. 740,971, dated October 6, 1903.

Application filed September 9, 1902. Serial No. 122,740. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER ANDREW BLAIN, a citizen of the United States, residing at Columbia, in the county of Richland and State of South Carolina, have invented a new and useful Shoe-Jack, of which the following is a specification.

This invention relates to improvements in shoemakers' jacks, and has for its object the production of a device simple in construction and capable of employment in various positions and adapted to support different forms of lasts and last-supports; and the invention consists in certain novel features of construction, as hereinafter shown and described, and specified in the claims.

In the drawings illustrative of the invention, Figure 1 is a side elevation, and Fig. 2 is a front elevation, of the device complete. Fig. 3 is a rear elevation of the lower portion of the device, partially in section, illustrating its operation more fully.

The device may be supported upon the floor or upon a bench and may be adapted to the position of the operator whether sitting or standing at his work; and it consists in a base member 10, which will be secured, as by bolts 11, upon the floor or upon a bench or other support, as the case may be.

The base member 10 will be provided with a central vertical socket 11, in which a stud 12 upon a bracket 13 fits rotatively, the bracket having a shoulder 14 extending laterally and resting in engagement with a wear-plate 15 in the form of a washer, as shown.

The stud 12 will be of sufficient length to retain the bracket and its attachments in a vertical position, and to prevent it from being removed from the base member the stud 12 will be provided with an annular groove 16, in which the inner end of a set-screw 17 is adapted to enter, as shown. The set-screw 17 will not engage the stud 12 to prevent its rotation, but will merely prevent its longitudinal movement in its socket.

The base member 10 may be of any suitable size, but will be of sufficient area to afford the requisite support for the jack.

The bracket 13 is provided with spaced ribs 18 19, extending from one side about one-half the height of the bracket, and the bracket

will also be provided with a vertical slot 20, located intermediately of the spaced ribs, as shown. Engaging the bracket 13 is a foot member 21, the lower end of the foot member being formed to fit between the ribs 18 19 and secured in place by a bolt 22 passing through the foot member and also through the slot 20. The ribs 18 19 thus serve as guards to support the foot member from lateral movement in one direction, while the bolt 22 prevents lateral movement in the direction at right angles with the first-named movement and also prevents longitudinal movement when set up tight, as will be obvious.

The slot 20 will extend some distance above the ribs 18 19, so that when the bolt is loosened the foot member 21 may be elevated to the upper part of the bracket member 13 and turned off at an angle, as indicated in Fig. 3, the object to be hereinafter explained.

The upper end of the hook member 21 is provided with a stud 23, upon which the main supporting-standard of the device is mounted rotatively. This standard consists, preferably, of a section 24, of gas-piping, having a thimble 25 screwed to its lower end, the thimble provided with a set-screw 26, adapted to engage an annular groove 27 in the stud 23, by which means the standard is rotatively connected to the foot member 21 in substantially the same manner as the bracket member 13 is connected to the base 10, so that the standard while free to rotate upon the foot member will be prevented from moving longitudinally thereon.

Rotatively supported upon the upper end of the section 24 is a head member 27', provided with a stud 28, fitting into the upper end of the section 24 and rotative thereon and held from longitudinal movement by a set-screw 29 through the section 24 engaging an annular groove 30 in the stud 28, the stud and the groove being indicated only by dotted lines in Figs. 1 and 2. The construction of the stud 28 and its channel 30 is substantially the same as the stud 23 and its channel 27 and will operate in substantially the same manner.

The upper end of the head member 27' is formed irregular in shape and adapted to support the last-holding bracket 32 or any other



suitable attachment or any of the various forms of pegging-lasts or other implements employed in connection with devices of this character; but as these pegging-lasts and like  
 5 attachments are of the usual form and as their construction is so well known they are not further illustrated.

The portion 31 of the head 27' will preferably be oblong in cross-section and tapered  
 10 vertically, so that the member 32 when placed in position will be rigidly held from lateral movement and maintained in position to resist the severe strains to which it will be subjected.

15 The member 32 extends in opposite directions from the head member 27' and will be provided with a vertical aperture (indicated by dotted lines at 33 in Fig. 1) and adapted to support a stud 34, while the opposite end  
 20 of the member 32 is preferably square in cross-section for a distance and adapted to support a standard 35, the standard being provided with a set-screw 36, by which it may be adjustably connected to the squared portion.

25 The upper surface of the member 35 is concaved and adapted to engage the lower surface of a last near the toe end, while the stud 34 is adapted to engage and support the heel end. By this simple means when lasting  
 30 shoes the last may be firmly supported detachably in position upon the jack convenient to the operator and readily adjustable to any desired position rotatively either by means of the head member 27' or the bracket  
 35 member 13, while at the same time the supporting-bracket 35 may be adjusted longitudinally of the member 32 to adapt the device to lasts of different sizes. If an ordinary pegging-last is to be used, the member 32 is re-  
 40 moved and the pegging-last inserted in its place, which may be done very quickly, as will be obvious.

An adjustable holding-strap 37 is provided to enclose the work supported by the jack,  
 45 the strap having adjusting-buckles 38 39 upon opposite sides, by which the length of the strap may be adjusted to suit. By this means the strap may be adjusted from either side or from both sides, as may be preferred.

50 When sewing shoes it may be necessary to turn the last-holding end of the jack downward to bring the work in proper position, and this may be readily accomplished by the means shown in Fig. 3 and before described  
 55 and the last-holding means firmly supported at any desired angle. By this very simple arrangement all the various movements required in the operation of manufacturing shoes may be readily accomplished without  
 60 detaching any parts other than the member 32, and this member requires no loosening of set-screws or other parts. The changes of position may thus be very quickly made and without loss of time.

65 All of the parts except the strap 37 will be of metal of suitable strength, or, if preferred,

the bracket 35 may be of hard wood of sufficient size to resist the strains to which it will be subjected.

The sizes of the respective parts of the de- 70  
 vice may be increased or decreased, if required, and the parts modified in minor particulars without departing from the principle of the invention or sacrificing any of its advantages. 75

If the device is to be employed upon the floor and the operator is to stand while at work, the section 24 will be made longer than in that form of the device employed upon a bench or upon the floor in position to permit  
 80 the operator to remain sitting while at work, and this will be the only change necessary to adapt the machine for use by an operator who prefers either position. This modification would not be a departure from the prin- 85  
 ciple of the invention, as the operation and the results produced would be precisely the same in both forms, and I therefore reserve the right to make such changes and modifications as may fall within the scope of the 90  
 claims.

Having thus described the invention, what is claimed is—

1. In a device of the character described, a base member, a bracket member rotatively en- 95  
 gaging said base member and having spaced guide-ribs and a vertical slot lying between said ribs, a standard member adapted to engage a last and be supported by said guide-ribs, and a clamp-bolt engaging said slot and  
 100 movably connecting said standard and bracket, whereby said standard may be supported vertically upon said bracket or adjusted at an angle thereto, and securely clamped in either position, substantially as described. 105

2. In a device of the character described, a base member, a bracket member rotatably en-  
 110 gaging said base member and having spaced guide-ribs, and a vertical slot lying between said guide-ribs and extending above said ribs, a standard adapted to be supported by said guide-ribs, a clamp-bolt carried by said standard and engaging said slot, whereby said standard may be supported vertically upon  
 115 said bracket or adjusted at an angle thereto, and rigidly clamped in either position, substantially as described.

3. In a device of the character described, a base member having a central socket, a bracket member provided with spaced guide- 120  
 ribs and a vertical slot between said ribs and having a stud rotatively engaging said socket, a standard adapted to engage a last and be supported by said guide-ribs, and a clamp-bolt engaging said slot and movably connect- 125  
 ing said standard and bracket, said bolt forming means whereby said standard and bracket are rigidly associated, substantially as described.

4. In a device of the character described, a 130  
 base member, a bracket member engaging with said base member, said bracket member



having a vertically-slotted body portion, and  
laterally - extending longitudinal ribs upon  
one side of said body portion, said ribs being  
shorter than said slot, a standard having an  
5 end adapted to engage with said ribs, a clamp-  
bolt carried by said standard and engaging  
with said slot, whereby when said clamp-bolt  
is in the lower end of the slot the standard is  
supported in a vertical position and when  
10 said bolt is at the upper end of said slot the

standard may be adjusted at an angle to the  
vertical, substantially as described.

In testimony that I claim the foregoing as  
my own I have hereto affixed my signature in  
the presence of two witnesses.

WALTER ANDREW BLAIN.

Witnesses:

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PRINGLE T. YOUNG.