

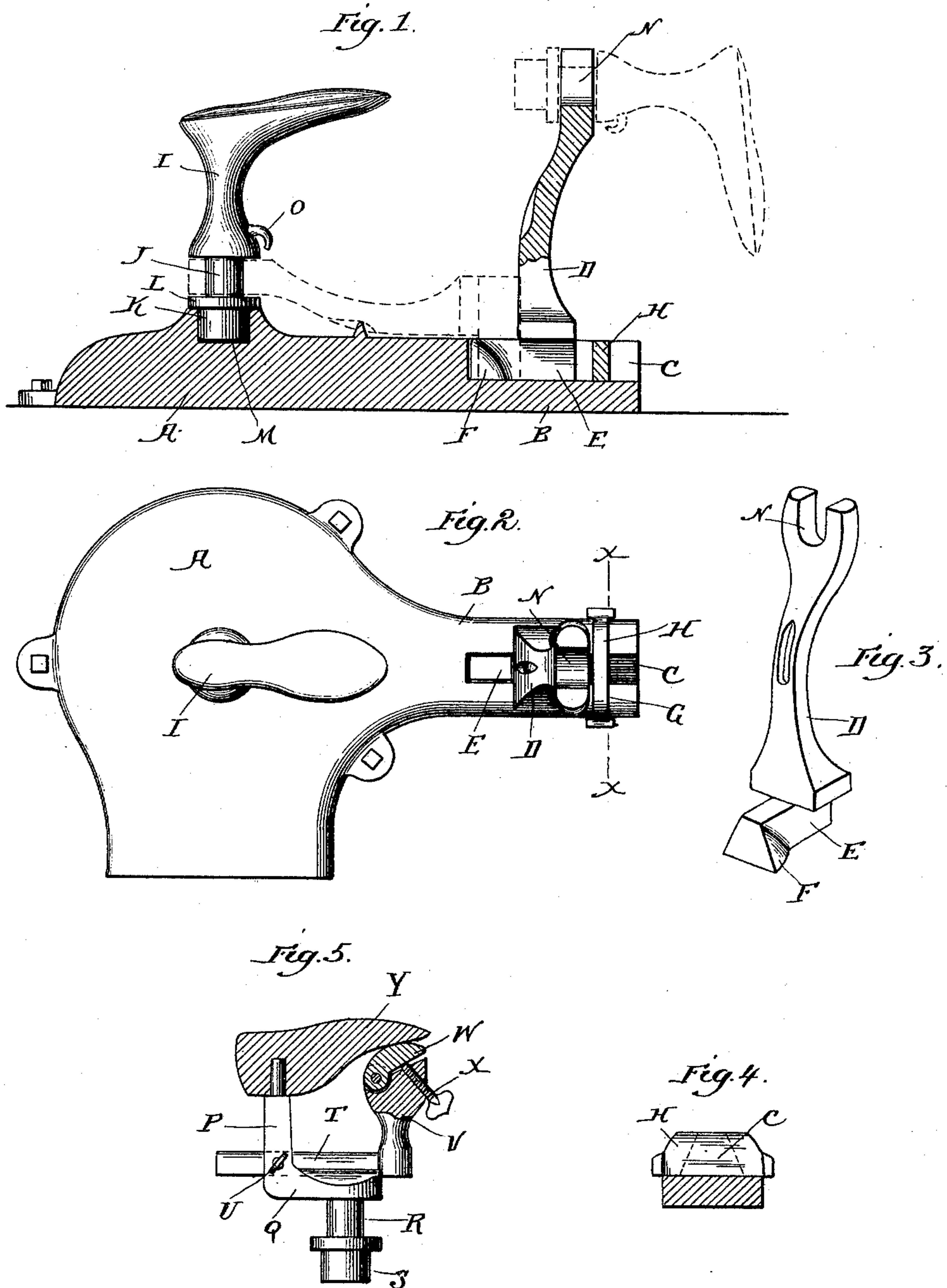
No. 619,127.

Patented Feb. 7, 1899.

C. BLEAM.
SHOE TREE OR JACK.

(Application filed Feb. 9, 1898.)

(No Model.)



Witnesses:
H. B. Hallock
S. Williamson

Inventor:
Charles Bleam.
by Wm. H. Hazleton, Jr.
Attorney.

UNITED STATES PATENT OFFICE.

CHARLES BLEAM, OF PHILADELPHIA, PENNSYLVANIA.

SHOE TREE OR JACK.

SPECIFICATION forming part of Letters Patent No. 619,127, dated February 7, 1899.

Application filed February 9, 1898. Serial No. 669,709. (No model.)

To all whom it may concern:

Be it known that I, CHARLES BLEAM, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a certain new and useful Improvement in Shoe Trees or Jacks, of which the following is a specification.

My invention relates to a new and useful improvement in shoe-trees and devices for holding and operating the same, and has for its object to provide simple means of this description for the manipulation of a shoe in mending or making the same; and with these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth, and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, its construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a section of a base-block fitted with my improvements, showing the tree in one position in full lines and in another in dotted lines; Fig. 2, a plan view thereof; Fig. 3, a detail perspective of the adjustable swinging arm; Fig. 4, a section at the line xx of Fig. 2, the swinging arm being omitted; and Fig. 5, a sectional elevation of a last-support and the clamp for use in connection with my improvements, whereby the making of a shoe is facilitated.

In carrying out my invention as here embodied, A represents the base-block, which is of a size and shape to readily support the parts attached thereto, and has formed therewith an extension or shank B, in which is an undercut groove C, as clearly shown in cross-section in Fig. 4.

An arm D is provided for the support of the shoe-tree, and this arm has an offset E cast therewith, adapted to fit within the groove C, and by means of the head F, formed with the offset, the arm will be held within the groove, yet permitted to swing, as will be readily understood, and in order that the head may not be accidentally withdrawn from

the groove I provide a bridge G, arranged to fit in a crosswise groove H, so that when the head has been inserted within the groove from the open end thereof said groove will be closed by the insertion of the bridge, as seen in Fig. 1.

I represents the shoe-tree, having a round shank J, upon which is formed a head K, having a flange L therewith. This head is adapted to fit within a circular recess M, formed in the central portion of the base-block, and when so placed it will be seen that the tree is swiveled to the block and may be revolved upon its axis, and for the purpose of holding said tree in place upon the block when the device is in operation the swinging arm is forked at its outer end, as indicated at N, and by swinging the arm to a horizontal position and sliding it inward until its forked end embraces the shank of the shoe-tree above the flange L said tree may be held in place by simply placing the foot upon the curved portion of this arm.

By this arrangement a shoe may be placed upon a tree and revolved so as to bring it into convenient positions for operating upon, and after the operations, which require a vertical position of the tree, have been accomplished and it is desired to turn the tree to a horizontal position for further operations this is quickly and readily accomplished by swinging the arm upward, said arm carrying with it the tree, on account of the forked end thereof embracing the shank of said tree, and thereafter this tree will be held in a horizontal position and may yet be revolved upon its axis, as clearly indicated in dotted lines in Fig. 1.

For convenience in holding the shoe upon the tree I provide a hook O, with which a strap may engage for this purpose.

When new shoes are to be operated upon, requiring the holding and stretching of the leather, I utilize a last-support of the construction shown in Fig. 5, which consists of the post P, projecting upward from a base Q, said base having a shank R, on which is formed the flange-head S, these two last-named parts corresponding exactly with the shank and head of the shoe-tree before described in order that they may fit within the

base-block, as well as be embraced by the forked end of the swinging arm. Through the post is formed a hole, and a slot is also formed in the base Q, and in this slot and
 5 hole runs the guide-arm T, which may be held in any adjustment by means of the set-screw U, and formed with or secured to this arm is the clamp V, having pivoted thereto the jaw
 10 W, which is under control of the clamp-screw X, by means of which it may be drawn toward the clamp, and thereby secure the leather while it is being formed to the last, which is adapted to be supported by the upper end of
 15 the post B, as clearly shown, and this complete device may be placed within the base-block before described and there held by the swinging arm, or it may be swung to a horizontal position by swinging the arm to its
 20 vertical position, as before described in connection with the shoe-tree.

By the use of my improvements the mending or making of shoes by hand is greatly facilitated and the cost of the devices are but slightly in advance of the cost of an ordinary
 25 tree, while many and important advantages are gained.

It will be understood that any shape or design of tree, last, or tool may be utilized in connection with my improvement, it being
 30 only necessary that the shank thereof is adapted to fit within the recess M of the base-block or be embraced by the fork N of the swinging arm.

Having thus fully described my invention,
 35 what I claim as new and useful is—

1. In a device of the character described, a base-block, a tree having a head and a shank adapted to fit within a recess of the base-block, a swinging arm slidable in a groove of
 40 the base-block and having a bifurcated end

embracing a shank of the tree, as and for the purpose described.

2. In combination, a base, a tree having a head fitting a circular recess of the base, a swinging arm having a bifurcated end embracing a shank of the tree, said arm having
 45 an offset formed on its end sliding in a groove of the base, as and for the purpose described.

3. In combination, a base-block having a recess and an undercut groove formed therein, a shoe-tree adapted to fit within said recess, and a swinging arm adapted to slide
 50 within the groove, as specified.

4. In combination, a base-block having a recess and an undercut groove formed therein, a shoe-tree, a shank formed with said
 55 tree, a head carried by the shank, said head being adapted to fit within the recess in the block, a swinging arm, an offset formed therewith, a head formed upon the offset, said
 60 head being adapted to slide within the undercut groove, a fork formed upon the outer end of the arm, and a bridge for preventing the accidental withdrawal of the arm, as specified.

5. In combination with a base-block, a last-support, consisting of a post, a block from which said post projects, a shank formed with
 65 said block, a head formed with the shank, a guide-arm sliding in a groove and hole in the block and post, a clamp carried by the arm,
 70 a jaw pivoted to said clamp, and a screw for operating the jaw, substantially as and for the purpose set forth.

In witness whereof I have hereunto affixed my signature in the presence of two subscribing
 75 witnesses.

CHARLES BLEAM.

Witnesses:

R. M. PIERCE,

S. S. WILLIAMSON.