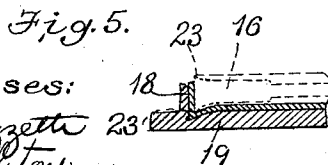
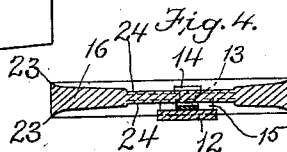
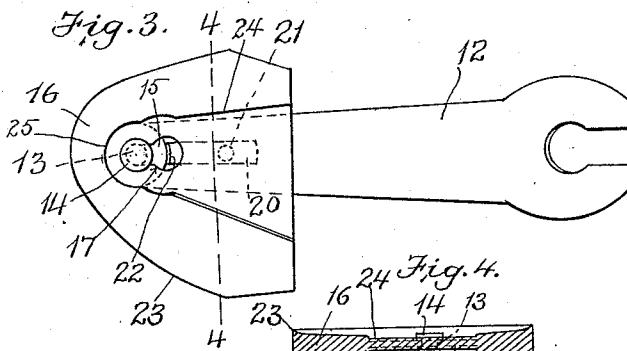
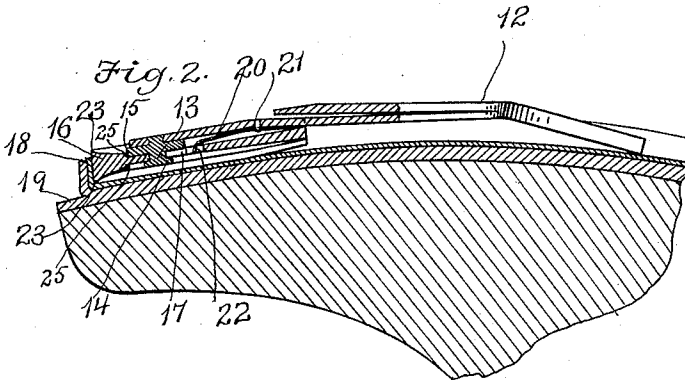
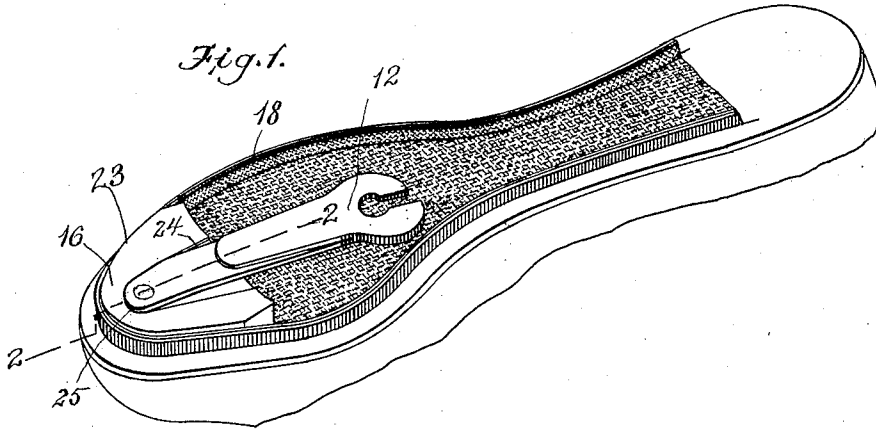


M. COOK.
HOLDDOWN FOR LASTING MACHINES.
APPLICATION FILED APR. 17, 1912.

1,047,387.

Patented Dec. 17, 1912.



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UNITED STATES PATENT OFFICE.

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HOLDDOWN FOR LASTING-MACHINES.

1,047,387.

Specification of Letters Patent.

Patented Dec. 17, 1912.

Application filed April 17, 1912. Serial No. 691,318.

To all whom it may concern:

Be it known that I, MILLER COOK, a citizen of the United States, and a resident of Whitman, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Hold-downs for Lasting-Machines, of which the following is a specification.

This invention relates to bed lasting machines adapted to support parts of a shoe assembled for lasting, the partially completed shoe being jacked and held upon the machine with its inner sole uppermost while the edges of the upper are being wiped or bent over the edge of the inner sole and temporarily secured thereto, the machine being of the type of bed lasting machines known as the "Ideal lasting machine."

My invention has for its object to provide an improved device for holding down the last during the operation of the machine and especially the toe portion of an inner sole forming a part of the shoe.

The invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings:—Figure 1 represents a perspective view of a holddown device, embodying my invention, bearing upon an inner sole. Fig. 2 represents a section on line 2—2 of Fig. 1. Fig. 3 represents a plan view of the under side of the device shown by Fig. 1. Fig. 4 represents a section on line 4—4 of Fig. 3. Fig. 5 represents a sectional view of a portion of an inner sole and represents by dotted lines a portion of the hold-down plate shown by the preceding figures.

The same reference characters indicate the same parts in all the figures.

In the drawings: 12 represents an arm which is movable over a shoe supported by a lasting machine and is adapted at one end to have a swinging connection with another arm forming a part of the mechanism provided for pressing the hold-down plate hereinafter described against the toe portion of the last. Said mechanism constitutes no part of my present invention and may be similar to that employed in the so-called "Ideal" lasting machine, the construction of which is well known and does not require description. The opposite end of the arm

12 is provided with a coupling member adapted to engage the hold-down plate, said member being preferably a stud 13 rigidly attached to the arm and provided with a head 14 which is separated from the arm by an intervening space adapted to receive a portion of the holddown plate. The end of the arm from which the stud coupling member 13 projects has a circular shoulder 15 which is concentric with the stud member.

16 represents the hold-down plate which is provided with a complemental coupling member preferably formed as a key-hole shaped slot or socket 17, the larger end of which is adapted to pass over the head 14 of the stud member, while the width of its smaller end is less than the diameter of said head, so that the plate is adapted to be detachably engaged with the arm by first slipping the larger end of the slot 17 over the head 14 and then moving the plate endwise until the stud 13 comes to a bearing on the closed end of the narrow portion of the slot, as shown by Fig. 2. The plate 16, when engaged with the stud member is adapted to rotate thereon to a limited extent in either direction and thus adjust itself to the inner face of the rib or lip 18 on the inner sole 19.

The described coupling members are adapted to prevent bodily or rectilinear edge-wise movement of the plate relatively to the arm, excepting in the direction required to move the larger end of the slot 17 into alinement with the head 14. The arm 12 is provided with a detent adapted to resist movement in the direction last mentioned, said detent being preferably a resilient metal strip 20 attached at 21 to the arm and having an outwardly curved end 22 adapted to spring into engagement with a portion of the margin of the slot 17, as indicated by Fig. 2. The detent serves to prevent accidental disengagement of the plate from the arm when the hold-down device is not in use, and is sufficiently yielding to permit the removal of the plate by edgewise pressure exerted thereon.

The described construction permits a quick application and removal of the plate to and from the arm so that plates of different sizes and shapes may be readily used interchangeably.

The pressing face of the plate 16 is prefer-

ably hollowed to form an acute angled marginal ridge 23 adapted to project into the depression at the inner side of the lip 18 when said lip is formed by channeling the inner sole and bending the channeled lip or flap outwardly, as indicated by Fig. 5.

The plate 16 is preferably reversible so that when it has the general form indicated by Fig. 3, it may be applied to the sole of either a right or left shoe, the plate being adapted to engage the stud member 13 with either of its faces directed inwardly. When the plate is reversible, each of its sides is hollowed so that each has a marginal ridge 23, as indicated by Figs. 2, 4 and 5.

Each side of the plate is preferably provided with a recess 24 having a closed substantially semicircular end 25. The end of one of the recesses is adapted to bear on the shoulder 15 on the arm 12, as shown by Fig. 2. Provision is thus made for firmly supporting the plate against the edgewise pressure directed on it by the operation of wiping the toe portion of the upper over the inner sole. The longitudinal sides of the recesses 24 diverge from the semicircular end portion 25, so that the open end of each recess is considerably wider than the arm 12, provision being thus made for permitting the described limited rotary movements of the plate relatively to the arm.

The two sides of the plate or pressing member 16 constitute two interchangeably operative pressing faces, one of which conforms to the toe portion of a right sole and the other to the toe portion of a left sole.

I believe that I am the first to provide a hold-down device comprising an arm movable over a shoe supported by a lasting machine, and a pressing member carried by said arm, and having two pressing faces, one conforming to the toe portion of a right sole, and the other conforming to the toe portion of a left sole, said member being adjustable relatively to the arm, to make either pressing face operative, or in other words, to make the said faces interchangeably operative.

I claim:—

1. A lasting machine hold-down device comprising an arm movable over a shoe supported by a lasting machine, and having a coupling member, and a hold-down plate having a complemental coupling member detachably engageable with the arm coupling member, said coupling members being adapted to secure the plate to the arm with either side facing the sole.

2. A lasting machine hold-down device comprising an arm movable over a shoe supported by a lasting machine, and having a coupling member, and a hold-down plate having a complemental coupling member detachably engageable with the arm cou-

pling member, said coupling members being adapted to secure the plate to the arm with either side facing the sole, and to permit a limited rotary movement of the plate relatively to the arm.

3. A lasting machine hold-down device comprising an arm movable over a shoe supported by a lasting machine, and having a coupling member, and a hold-down plate having a complemental coupling member detachably engageable with the arm coupling member, said coupling members being adapted to secure the plate to the arm with either side facing the sole, the sides of the plate being hollowed to form a marginal ridge.

4. A lasting machine hold-down device comprising an arm movable over a shoe supported by a lasting machine and having a laterally projecting headed stud constituting a coupling member, and a hold-down plate having a key-hole shaped slot constituting a socket coupling member detachably engageable with the stud coupling member, the arm being provided with a detent adapted to resist a disengaging movement of the plate.

5. A lasting machine hold-down device comprising an arm movable over a shoe supported by a lasting machine and having a laterally projecting headed stud constituting a coupling member, and a hold-down plate having a key-hole shaped slot constituting a socket coupling member detachably engageable with the stud coupling member, the arm being provided with a resilient detent adapted to engage the margin of said slot and resist a disengaging movement of the plate.

6. A lasting machine hold-down device comprising an arm movable over a shoe supported by a lasting machine and having a laterally projecting headed stud constituting a coupling member, and a hold-down plate having a key-hole shaped slot constituting a socket coupling member detachably engageable with the stud coupling member, and permitting a limited rotary movement of the plate relatively to the arm, the arm being provided with a shoulder and the plate with a recess having a closed semicircular end adapted to bear on the said shoulder.

7. A lasting machine hold-down device comprising an arm movable over a shoe supported by a lasting machine and having a laterally projecting headed stud constituting a coupling member, and a hold-down plate having a key-hole shaped slot constituting a socket coupling member detachably engageable with the stud coupling member, and permitting a limited rotary movement of the plate relatively to the arm, the arm being provided with a shoulder and the plate being provided in its opposite

sides with recesses each having a closed semicircular end, each adapted to bear on the said shoulder.

5 8. A lasting machine hold-down device comprising an arm movable over a shoe supported by a lasting machine, and a pressing member connected with said arm and provided with two pressing faces, one conforming to the toe portion of a right sole and the other to the toe portion of a left sole, said faces being interchangeably operative.

10 9. A lasting machine hold-down device comprising an arm movable over a shoe sup-

ported by a lasting machine, a pressing member having two pressing faces, one conforming to the toe portion of a right sole and the other to the toe portion of a left sole, and connections between said arm and pressing member whereby said faces may be made interchangeably operative.

In testimony whereof I have affixed my signature, in presence of two witnesses.

MILLER COOK.

Witnesses:

C. F. BROWN,

P. W. PEZZETTI.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
