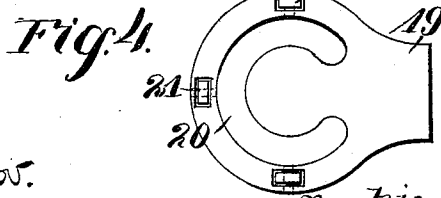
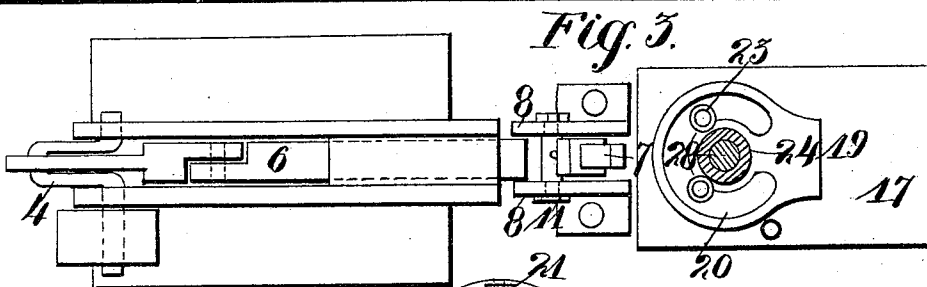
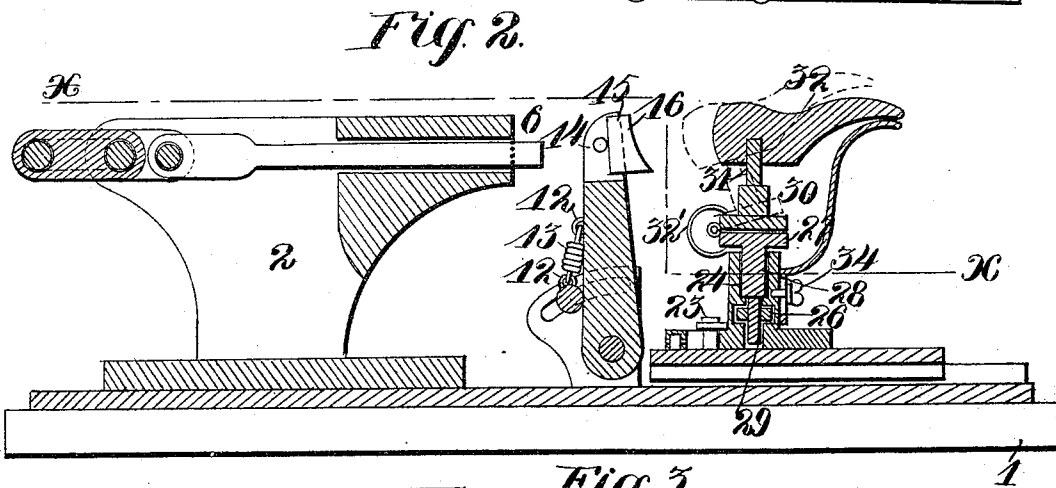
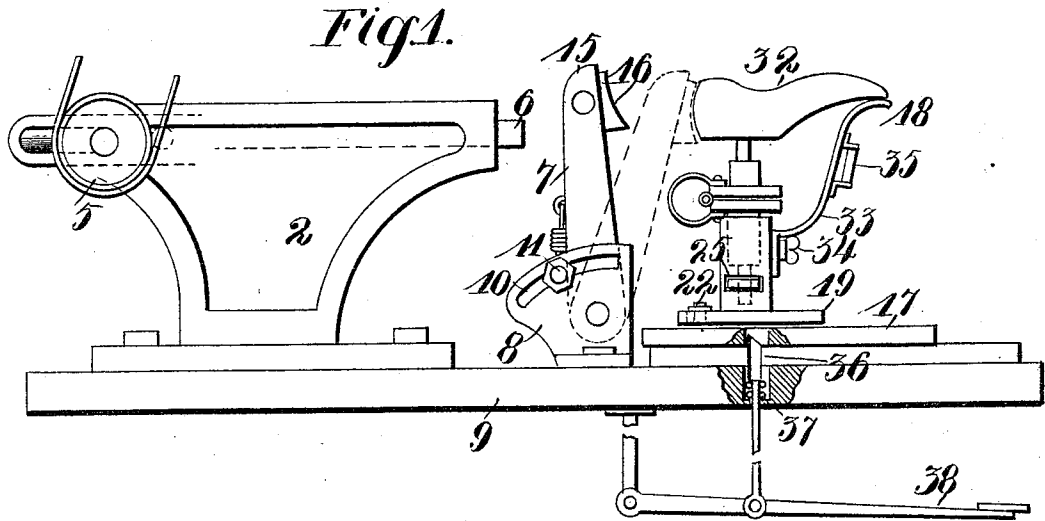


(No Model.)

W. WOLFE.
HEEL SEAT BEATING MACHINE.

No. 460,737.

Patented Oct. 6, 1891.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM WOLFE, OF ST. LOUIS, MISSOURI.

HEEL-SEAT-BEATING MACHINE.

SPECIFICATION forming part of Letters Patent No. 460,737, dated October 6, 1891.

Application filed March 14, 1891. Serial No. 385,019. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WOLFE, of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Machines for Beating Up Seats on Boots and Shoes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in machines for beating up seats on boots and shoes; and it consists in the novel arrangements and combination of parts, as will be more fully hereinafter described, and designated in the claims.

In the drawings, Figure 1 is a side elevation of my complete invention. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a horizontal cross-section taken on the line xx of Fig. 2; and Fig. 4 is a bottom plan view of a shoe-jack, showing the same provided with rollers.

Referring to the drawings, 1 indicates the supporting-frame, on which my invention may be secured and supported for functional use, and 2 indicates a frame-work of ordinary construction, in which a plunger 6, of ordinary construction, is located and secured therein in any suitable and mechanical manner. The shorter arm of said plunger is mounted on a crank-shaft 4, the same being provided with a belt-pulley 5, to which a belt may be applied for reciprocating said plunger. Said plunger 6 is adapted to strike and impel a pivotal arm or standard 7. Said arm or standard 7 is pivotally secured in an interposed position between bearing or guide plates 8, the same being firmly secured, as well as the frame-work 2 and the other operative mechanism, to the base-plate 9. Said plates 8 are provided with curvilinear slots 10, through and in which a nut-bolt 11 is adapted to be inserted and adjustably secured therein. Said nut-bolt, as well as arm 7, is provided with staples 12, in which are secured the terminal portions of a spiral spring 13. Said spring has the function of retracting arm 7 after the same has been impelled in a forward direction by the operation of plunger 6, the extent of the retraction, however, being regulated by nut-bolt 11, which is secured, as hereinbefore stated, in a location in the rear of arm 7.

Said arm 7 is provided in the region of its upper terminal portion with a bifurcation 14, in which any form of dies, such as 15, may be secured and removed. Said dies are provided with curved percussion-faces 16, of any form, to which the seats on the boots and shoes are desired to be conformed.

17 represents an adjustable plate, on which is mounted a shoe-jack 18, consisting of the following parts, to wit: a laterally-adjustable plate 19, the same being provided with a horse-shoe-shaped slot 20, and friction-rollers 21, pivotally mounted in said plate, as shown in Fig. 4. Said plate 19 is held and secured to plate 17 by means of nut-bolts 22, over which is slipped and mounted friction-rollers 23. Integrally formed or cast with plate 19 is a socketed stem 24, the same being provided with a transverse perforation 25, in which perforation an internal screw-threaded nut is adapted to be inserted for the purpose hereinafter stated.

27 indicates another part of said shoe-jack, the same being provided with a projection 28, adapted to snugly fit in socket 24, and also the screw-threaded stem 29, on which the screw-threaded nut 26 is adapted to be screwed, the construction of same being illustrated in Fig. 2. To part 27 is hinged another part of the shoe-jack 30, said part being provided with a stem 31, which is adapted to be inserted in a depression formed in the last 32. Said parts 27 and 30 are yieldingly clamped together by means of a spring 32', the same being secured to said parts, as illustrated in Fig. 1.

It can be readily perceived from the construction as hereinbefore stated that part 27 is adjustable in a vertical direction, and also that part 30 may be adjusted at any angle relative to a vertical line that may be conceived to pass through said part 27.

33 indicates a support, on which the toe of the last or shoe is adapted to rest and be supported. Said support 33 is secured to part 24 by means of a thumb-screw 34.

35 indicates a hand-grip or handle for manipulating said support 33.

Plate 17 is adjustable to and from bearing-plate 8, and is held in the desired adjustment by means of a catch 36, which catch is yieldingly mounted on a spring 37, and is adapted

to be disengaged with said plate by means of a lever 38, the same adapted to be operated by means of the foot of the operator, as can be readily perceived by referring to Fig. 1.

5 It can be readily perceived from construction as hereinbefore set forth that the last 32, and consequently the shoe or boot that may be mounted on the same, is adjustable in a vertical direction and may be tilted at any
10 angle relative thereto, and is also adjustable in a horizontal direction, thereby subjecting the entire surface of the seat of said shoe or boot to the action of die 15.

15 Having fully described the mechanical parts of my invention and substantially the manner in which the same may be put together in operative mechanism, I will now proceed to describe the *modus operandi* of the same.

20 As can be readily perceived, the initiatory step is to properly mount or place the last containing the shoe on stem 31 of shoe-jack 18, and by proper manipulation of the mechanism as hereinbefore set forth, as sound
25 judgment and discretion may suggest, the seat of said shoe or boot may be beaten and conformed as desired.

Having fully described my invention, what I claim is—

30 1. A machine for beating up seats on boots and shoes, consisting of a frame-work 2, a plunger 6, located in the same, bearing-plates 8, interposed between which an arm 7, carrying

a die 15, is pivotally and yieldingly secured, an adjustable shoe-jack, and means for reciprocating said plunger and causing the same
35 to impel arm 7, substantially as set forth.

2. A machine for beating up seats on boots and shoes, having bearing-plates 8, the same provided with curvilinear slots 10, a nut-bolt 11, mounted in said slot, an arm 7, provided
40 with a bifurcation 14, said arm interposed and pivotally secured between said plates, a plunger for moving the arm forward, and spiral spring 13, connecting said bolt and said arm
45 for retracting the same after it has been impelled in a forward direction by the operation of the plunger, substantially as set forth.

3. The combination, with a frame-work, of mechanism mounted thereon for beating up
50 seats on boots and shoes, a plate 17, also mounted on said frame-work and adjustable to and from said mechanism, a shoe-jack carried by plate 17, a yieldingly-mounted catch 36 for holding said plate 17 in the desired
55 adjustment, and a lever 38 for disengaging said catch with plate 17, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM WOLFE.

Witnesses:

C. K. JONES,

EDWARD E. LONGAN.