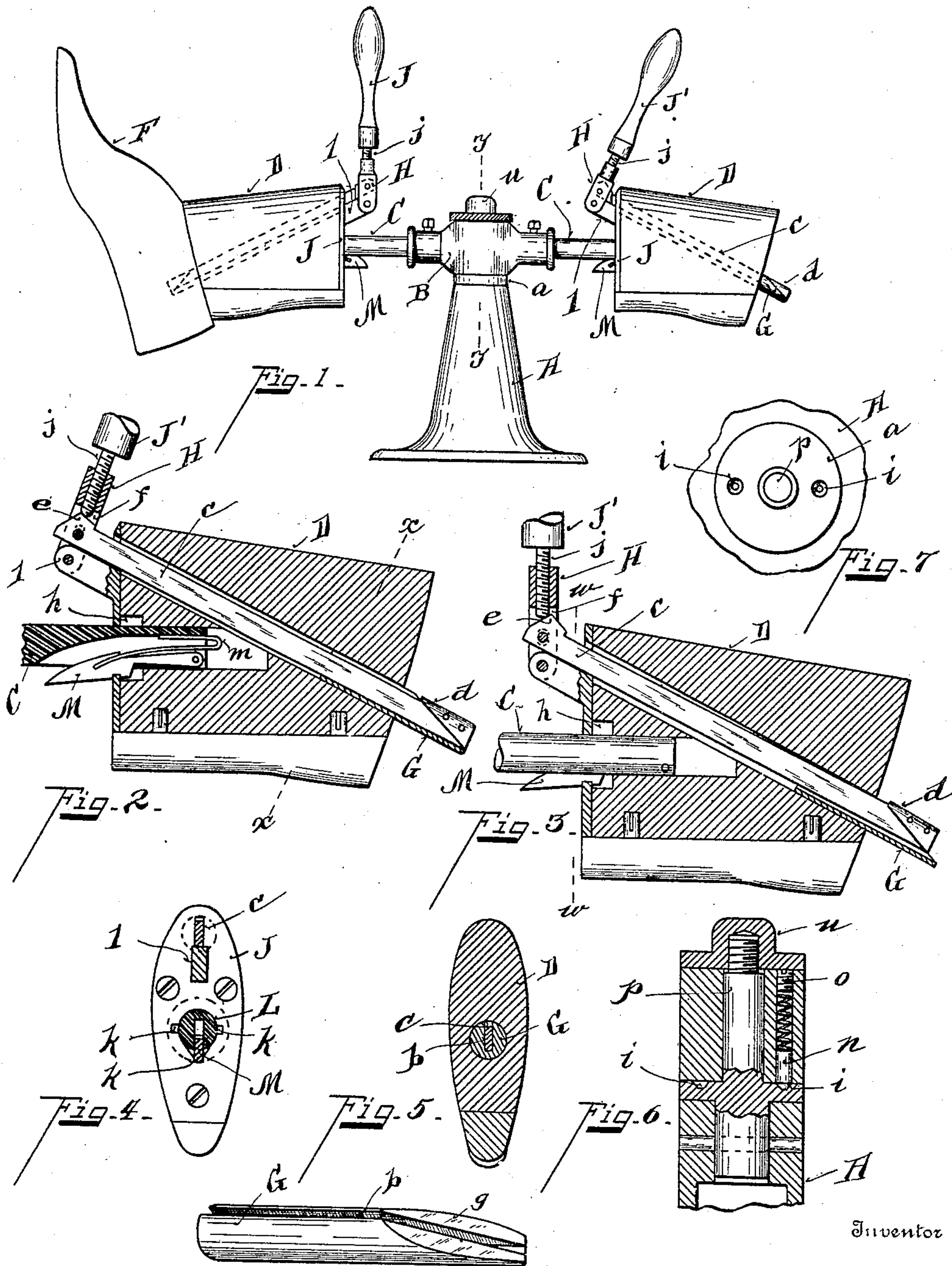


No. 835,486.

PATENTED NOV. 6, 1906.

H. D. COFFMAN.  
SHOE IRONING JACK.  
APPLICATION FILED MAY 24, 1905.



Witnesses

*Oliver B. Keiser*  
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*Fig. 8.*

By

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# UNITED STATES PATENT OFFICE.

HARRY D. COFFMAN, OF WASHINGTON COURT-HOUSE, OHIO, ASSIGNOR  
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## SHOE-IRONING JACK.

No. 835,486.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed May 24, 1905. Serial No. 261,995.

*To all whom it may concern:*

Be it known that I, HARRY D. COFFMAN, a citizen of the United States, residing at Washington Court-House, in the county of Fayette and State of Ohio, have invented certain new and useful Improvements in Shoe-Ironing Jacks, of which the following is a specification.

My invention relates to a shoe-jack.

10 The object of my invention is to provide a convenient means for an operator to iron a shoe on the second last, having a proper-shaped ankle-stock to support the ankle of the shoe for ironing.

15 Another object of my invention is to provide duplicate ironing and dressing supports mounted upon horizontal rods and swiveling the supports upon a suitable base, so that as soon as a shoe is ironed the operator revolves the supporting-rods half-way around in posi-  
20 tion for a second operator to apply the finishing-dressing while it is still in position on the supports, thereby saving an additional handling of the shoe and providing a better  
25 means for applying the finishing-dressing.

Other features of my invention are more fully set forth in the description of the accompanying drawings, forming a part of this specification, in which—

30 Figure 1 is a side elevation of my improvement in position for use. Fig. 2 is a central vertical section, partly in elevation, of the ankle-stock, showing the spindle and locking attachments in normal position. Fig. 3 is a  
35 similar view, showing the locks in position for rigidly securing the lasts to the ankle-stock. Fig. 4 is a section on line *ww*, Fig. 3. Fig. 5 is a section on line *xx*, Fig. 2. Fig. 6 is a section on line *yy*, Fig. 1. Fig. 7 is a  
40 plan view of the locking-plate on the swiveled stock-support. Fig. 8 is a perspective view of the fixed keeper-pin.

A represents the base-support of the jack, which is adapted to be securely attached to a  
45 bench.

*a* represents a lock-plate forming a base in which the tool swivels.

B represents the swiveled head.

50 C C represent rods rigidly attached to the swiveled head B, the free ends of which serve as spindles for the ankle-stocks.

D D represent ankle-stocks, each detachably secured to its spindles C.

F represents a last rigidly attached to one

of the ankle-stocks, upon which a shoe is 55 placed for ironing and finishing.

In order to readily lock the last to the ankle-stocks, I have provided the following instrumentalities: G represents a keeper-pin of the size and shape to fit the dowel-hole in 60 the last. The upper face is provided with an incline *g*. This pin is rigidly secured to the front of the ankle-stock and at appropriate angles to enter the dowel-hole in the last. This keeper-pin is provided with a slot *b*. *c* 65 represents a rod extending through the bore in the stock D, the front end of which slides in said slot *b*. *d* represents a cylindrical wedge pinned to said rod. The rear end of rod *c* is pivoted between the fork of the 70 hinged lever H. Said lever is pivoted to a bracket *l*, rigidly attached to the stock-plate J, which plate is rigidly secured to the rear end of the last-stock. J' represents an operating-handle which carries a screw 75 threaded into the upper end of the lever H. Rod *c* is provided with a cam *e* within the slot *f* of the bifurcated lever H. In Fig. 2 this keeper-pin and its locking-rod are in such relation that the keeper-pin is cylindrical 80 and the last can be freely taken off and on of the same. In Fig. 3 the lever H is shown thrown backward, the lock-rod *c* carrying the wedge *d*, which has been moved backward and the wedge moved up on the incline *g*, 85 thus increasing the diameter of the keeper-pin, of which the wedge forms a part, and by its frictional contact with the bore in the last rigidly locks the last firmly to the ankle-stock. In order to hold the parts in this 90 locked position, the lever H, carrying the screw-rod *j*, is turned down till its point engages the head of the cam *e*, forcing rod *c* against bracket *l*, locking the rod *c* against forward movement, as shown in Fig. 3. It 95 may also be locked against backward movement, as shown in Fig. 2.

As the ironing movement is better accomplished when the stock and last are turned so as to have the broad faces lie horizontally 100 and to lock the same against further movement, I have provided the following instrumentalities: J represents the stock-plate, which is provided with a central orifice L to form a bearing for the spindle. Said spindle 105 is slotted to receive a spring-catch M, which is pivoted to the spindle within the slot, as shown in Figs. 2 and 3. This catch is con-



5 constructed so as to lock the stock to the spindle.  
 10 *h* represents an annular recess in the stock,  
 in which the heel of the catch *M* turns. Said  
 catch is provided with a slot-engaging plate *J*  
 15 and holding the stock rotatively on the spin-  
 dle and against longitudinal movement until  
 the catch is released by depressing the same.  
 Thus this catch serves as a lock against longi-  
 tudinal movement and with the notches in  
 20 the stock-plate locks against rotation. *m* rep-  
 represents the preferred form of spring, throw-  
 ing the catch outward in its normal position.  
*k* represents notches formed in the stock-  
 plate into which the catch *M* engages when  
 25 the stock is turned to bring the catch oppo-  
 site the said notches, the spring pushing the  
 catches into engagement therewith and lock-  
 ing the ankle-stock against revoluble move-  
 ment until the catch is released. The stock,  
 30 last, and shoe may be locked in position, iron-  
 ing the ankle, and it may be turned so as to  
 iron on both sides, and this movement of the  
 stock is convenient for the operator, who ap-  
 plies the finishing-dressing after the parts  
 35 been turned from ironing around to a posi-  
 tion of the operator who applies the dressing.  
 In order that the stock and last may be  
 locked against horizontal movement of the re-  
 volving head during the operation of ironing  
 40 or finishing the shoe, I have provided the fol-  
 lowing instrumentalities: The swiveling or  
 revolving head bears upon the plate *a*, as  
 shown in Fig. 6. Said plate is provided with  
 countersunk orifices *i i*. Said head is provided  
 45 with a vertical bore in which is inserted a  
 spring keeper-pin *n*, which is inserted therein  
 and normally held in engagement by the  
 spring keeper-pin *n*, which is secured in posi-  
 tion by the nut *o*. The head *B* and contained  
 50 parts are mounted upon a shaft *p* and held in  
 position by nut *u*. The end of the keeper-pin  
*n* is pointed so that strain applied upon the  
 stock-spindle will force the pin out of engage-  
 ment and allow the same to turn half around,  
 when it automatically reengages the opposite  
 orifice *i*, thus automatically locking the ankle-  
 stocks and last in proper position for the op-  
 erator to turn it half around, so that the shoe  
 can be ironed by one operator and turned in  
 position for the finishing operator, who ap-  
 plies the same without removing the shoe  
 from the ankle-stock and last.

By means of this arrangement two opera-  
 tors—the ironer and finisher—can work at  
 the same time, the finishing following the iron- 55  
 ing. It has been found that the finishing im-  
 mediately following the ironing when the up-  
 per of the shoe is still warm assists the dressing  
 in drying and leaving it in better condition  
 at the same time avoiding one handling of 60  
 the shoe. Again by this method the ironer  
 puts the shoe in position for the operation  
 but he does not have to take it off of the jack.  
 The finisher does this, and the finisher is saved  
 the labor of putting the shoe and its last into 65  
 position for dressing. Thus not only is this a  
 saving of labor, but insures a neater and bet-  
 ter finish in the application of the dressing.

Having described my invention, I claim—

1. In a shoe-ironing jack, a solid stock hav- 70  
 ing a substantially central bore at one end to  
 form a spindle-journal, an inclined bore ex-  
 tending longitudinally through the stock and  
 terminating substantially centrally on the  
 last end of the stock, a wedging-pin on the last 75  
 end of the stock, an actuating device on the  
 front end of the stock, and a rod extended  
 through said inclined bore and connecting  
 with said wedge, substantially as described.

2. In a shoe-ironing jack, a stock, a last 80  
 provided with a keeper-pin hole, a keeper-  
 pin on the last end of the stock consisting of a  
 stationary slotted member with an inclined  
 end, a movable coacting wedge engaging said  
 inclined end, a lever on the front end of the 85  
 stock, and a rod extended through said stock  
 and slot and connecting the lever to the  
 wedge member, substantially as described.

3. In a shoe-ironing jack, a stock, a last 90  
 having a pin-receiving orifice, a clamp  
 formed of a pin split longitudinally on an in-  
 cline, one of the split sections being secured  
 to the last end of the stock, a rod connected  
 to the other split section and extended  
 through the stock, and means on the other 95  
 end of the stock connected to said rod for  
 actuating said clamp, substantially as de-  
 scribed.

In testimony whereof I have hereunto set my hand.

HARRY D. COFFMAN.

Witnesses:

J. A. EDGE,

C. U. ARMSTRONG.