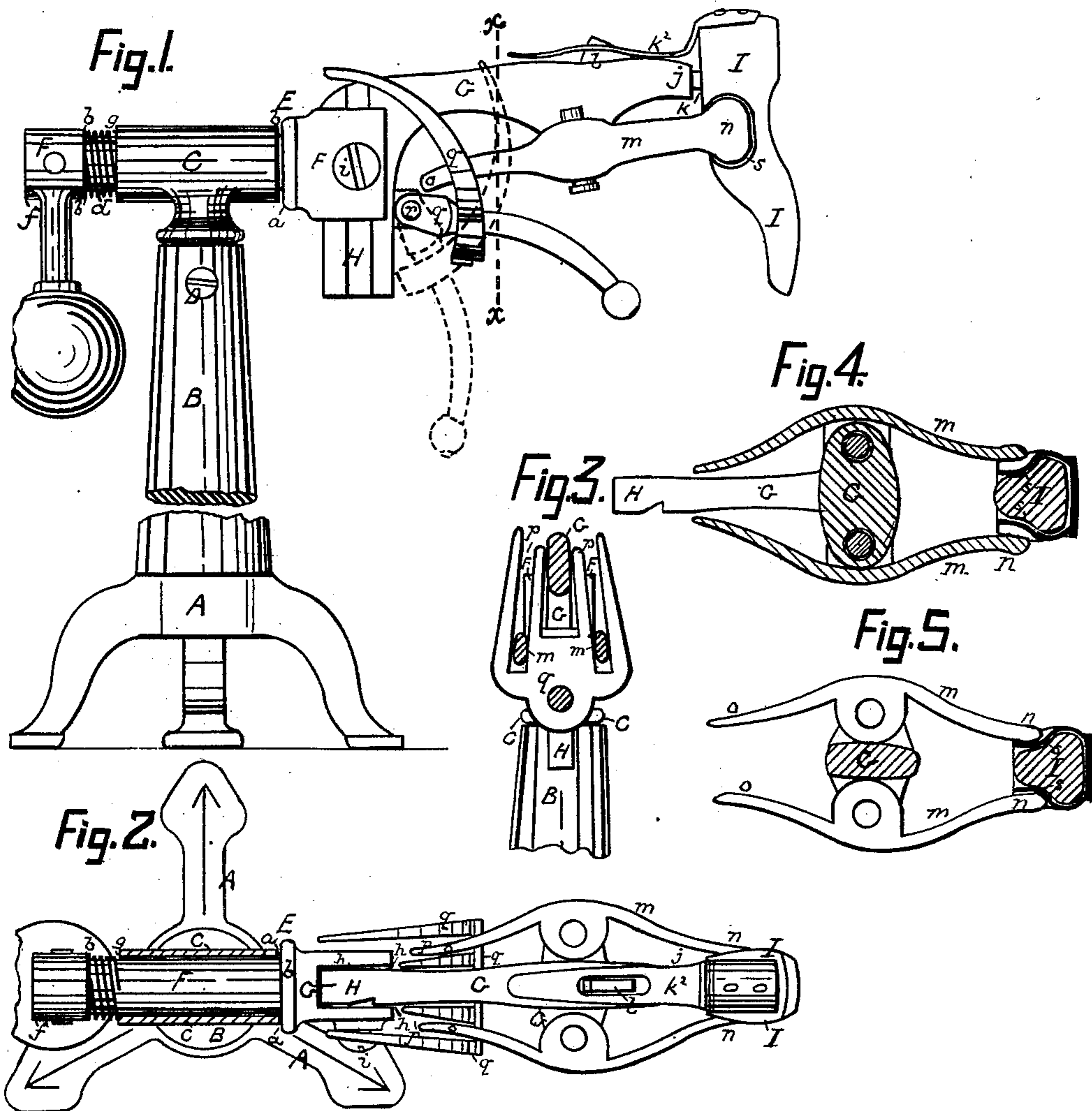


Z. BEAUDRY.
Jack for Boots and Shoes.

No. 231,527.

Patented Aug. 24, 1880.



Witnesses.

W. S. Bellows
Oscar Low

Inventor.

Z. Beaudry
Per Brown & Bove
Attorneys.

UNITED STATES PATENT OFFICE.

ZOTIQUE BEAUDRY, OF LYNN, MASSACHUSETTS.

JACK FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 231,527, dated August 24, 1880.

Application filed December 31, 1879.

To all whom it may concern:

Be it known that I, ZOTIQUE BEAUDRY, of Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Jacks for Boots and Shoes, of which the following is a clear, full, and exact specification.

This invention relates to a jack more especially designed for use in supporting and carrying boots and shoes in proper position for their soles or heels to be trimmed by trimming-machines; but it may also be used in connection with burnishing-machines.

It consists in certain combinations and arrangements of devices whereby the center of the curvature of the sole of a boot or shoe may be brought into coincidence with the axis of rotation of its supporting-arm, whatever may be the length of the sole; also, in the combination, with the carrier-arm of the jack, of pincher-arms arranged to draw the upper away from the edges of the sole, while leaving the said edges uncovered and accessible throughout to the trimming and burnishing tools, all as more fully hereinafter described.

In the accompanying plate of drawings my improved jack for boots and shoes is illustrated, Figure 1 being a side elevation of the same; Fig. 2, a plan view; Fig. 3, a vertical section on line *x x*, Fig. 1; Figs. 4 and 5, horizontal sections in detail, as will hereinafter appear.

In the drawings, A represents a tripod surmounted with a central column, B, carrying at its upper end a block, C, swiveled to turn in a horizontal plane, a set-screw, D, fastening it against movement; E, a horizontal arm, made in two parts, F and G, the one the continuation of the other. This arm E turns by its part F, which is cylindrical, in a horizontal bearing of the swiveled block C, and it is confined therein by end shoulders, *b b*, which shoulders are situated a sufficient distance apart relative to the length of the bearing for a spiral spring, *d*, to be confined between the shoulders *b* at the weighted end *f* of the part F and the end *g* of the bearing, and in a manner to confine the part by its shoulder, which is at the end where the part G joins the part F, as hereinafter described, the closer against

the end *a* of the bearing, but with a yielding and elastic pressure.

The two parts of the arm E are jointed together end to end through a groove, *h*, in the one part, F, which runs at right angles to the axial line of its bearing in the bearing-block C, and through a tongue-piece, H, of the other part, G, which fits said groove of the part F, and is adapted to be moved forward and backward therein, it being secured, when so desired, against movement by means of a set-screw, *i*, suitably located therefor in the grooved end of the part F. At the extreme outer end, *j*, of the part G is stationed the shoe-last I. This shoe-last has the length of its sole at right angles to the axis of revolution of the arm E in the bearing-block C, and it is secured in such position by its pin *k*, which fits into a corresponding socket in the end *j* of the arm G, and its spring-catch *k*², which catches over the lug *l* on the upper side of the arm G and holds the last both from escape and from any side movement. Under this arrangement of parts the boot or shoe, lasted and placed in the position above stated, can be adjusted by moving the part G on the part F of the arm E, so that the center of the curvature of the toe and the axis of rotation of the arm F in the bearing-block C will practically or substantially coincide with each other, the advantage of which in the trimming of the toe with a knife, either held in the hand or in a machine, is obvious.

m m are two pincher-arms, each hung to swing on the part G of the carrier-arm E for the last, and each arranged at one end, *n*, to bear against the sides of the last (one on each side) at the shank portion of the last, and at the other end, *o*, to interlock with slots *p p* of an arm, *q*, which is hung upon a center, *r*, of the last-carrier arm E. These slots *p p* are inclined to each other, and this inclination is such as, in the swing of their common arm *q* in one direction, to cause the pincher-arms to grasp the sides of the last, and in the other direction to release the pincher-arms from such grasp. The sides of the last at which the pincher-arms bear are hollowed out, as at *s*, for the reception of the pincher-arms. These pincher-arms, when brought to bear on the sides of the jack, se-

cure a drawing and tightening of the upper at the shank of the last, and thus the upper is placed away from the edge of the sole at the shank, the better for the operation of trimming, &c.

The hollowing out, *s*, of the last secures a better hold of the pincher-arms on the upper of the boot or shoe on the last, and, if desired, the portions of the pincher-arms which lie against the upper may be covered with india-rubber or otherwise adapted to increase their hold and friction on the surface of the leather.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is--

1. In a jack for boots and shoes, the combination, with the bearing *C*, of the carrier-arm *E*, composed of the two parts *F* and *G*, the said part *F* swiveled in said bearing and the said part *G* connected end to end with and adjustable laterally on the part *F*, whereby the center of the curvature of the sole of a boot or shoe carried by the arm may be brought into coincidence with the axis of rotation of said arm, substantially as and for the purpose set forth.

2. The combination, with the suitably-sup-

ported carrier-arm, of the pincher-arms fulcrumed upon said arm and adapted to partially overlap from its top a last carried at the end of said arm and press upon its opposite sides, whereby the upper of a boot or shoe may be stretched away from the edges of the sole and said sole rendered free of access at all points, substantially as described.

3. The combination, with the carrier-arm, of the pincher-arms *m*, having their outer ends adapted to overlap from its top a last carried at the end of said arm and to grasp said last on opposite sides, and the vertically-swinging arms *q*, having the oppositely-inclined slots, embracing the inner ends of said arms, substantially as described.

4. The combination of the bearing *C*, the swiveling portion *F* of arm *E*, having the groove *h*, and the laterally-adjustable portion *G* of said arm, having the grooved tongue-piece sliding in said groove and held in place by suitable means, substantially as described.

ZOTIQUE BEAUDRY.

Witnesses:

EDWIN W. BROWN,
W. S. BELLOWS.