

(No Model.)

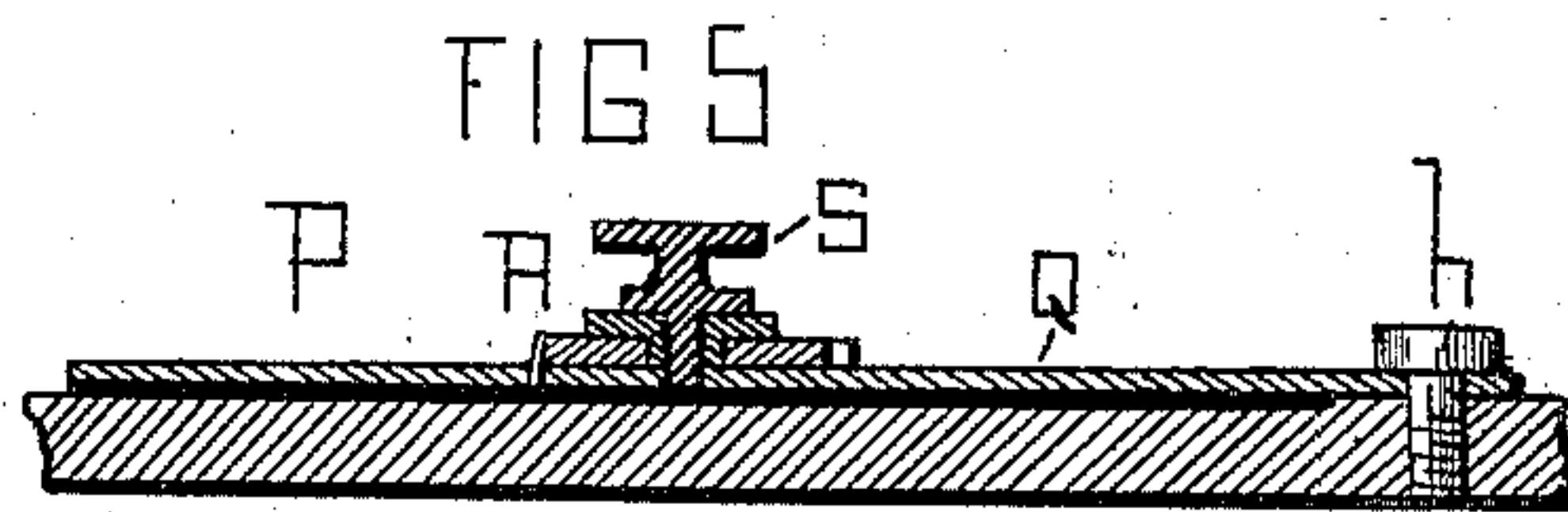
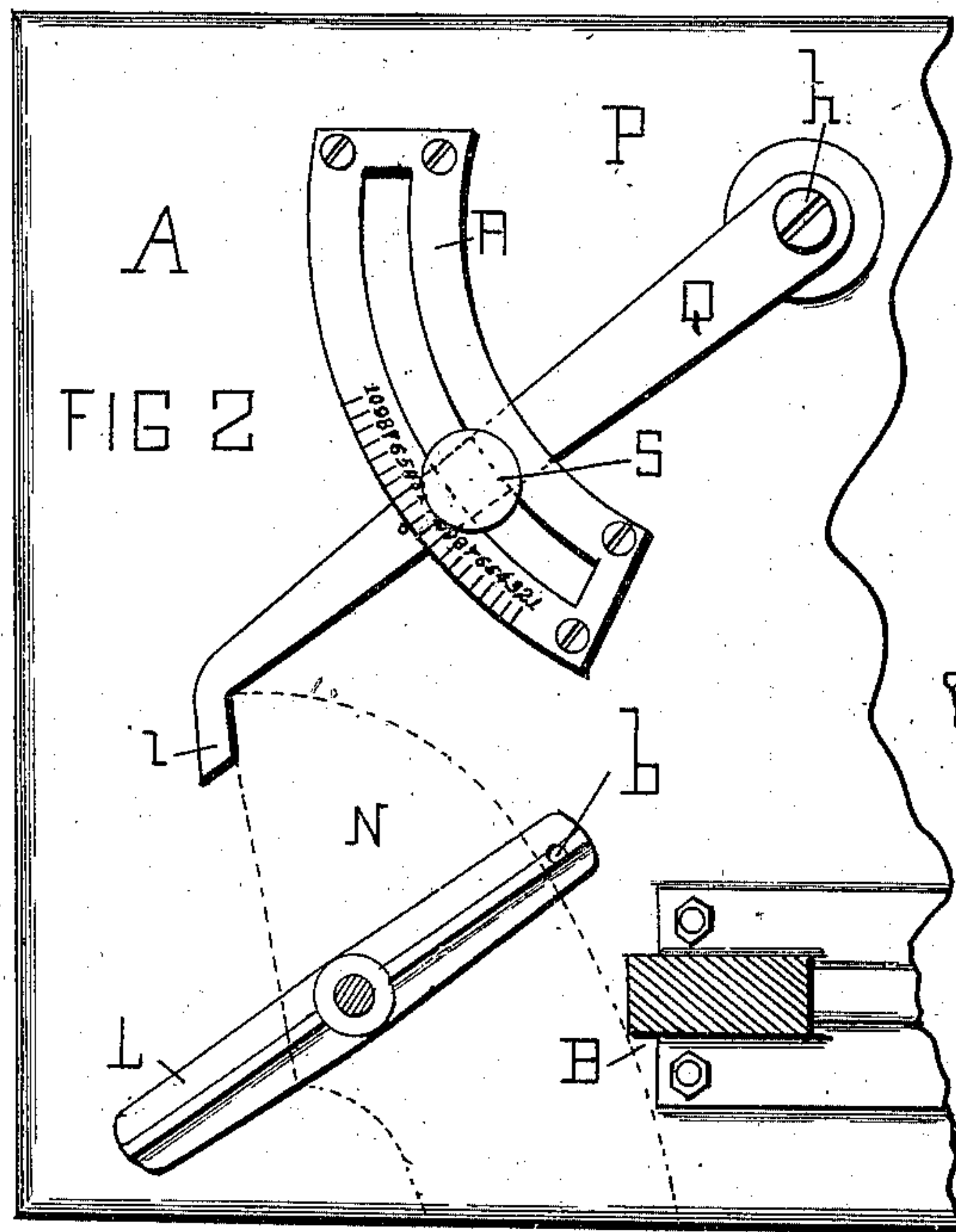
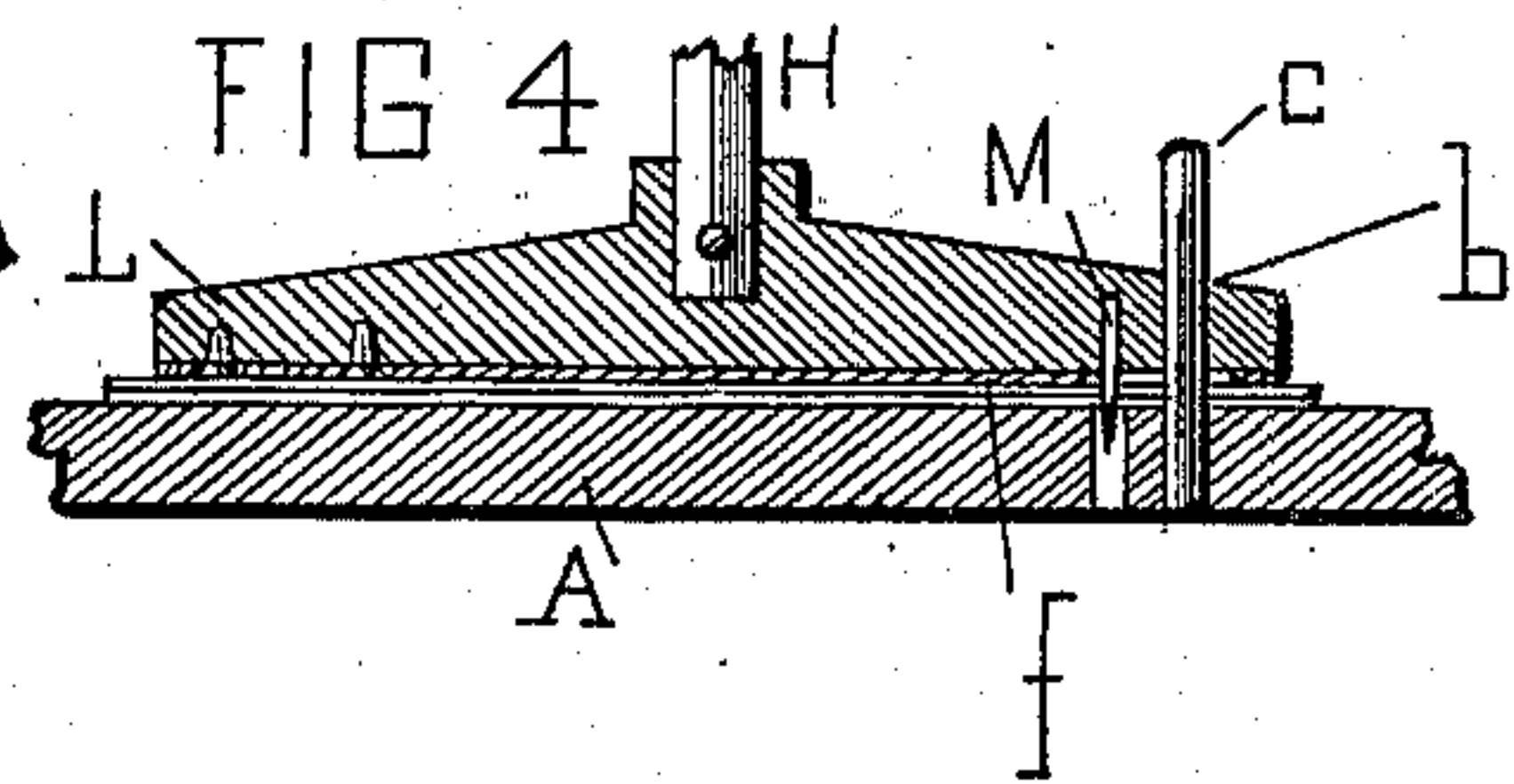
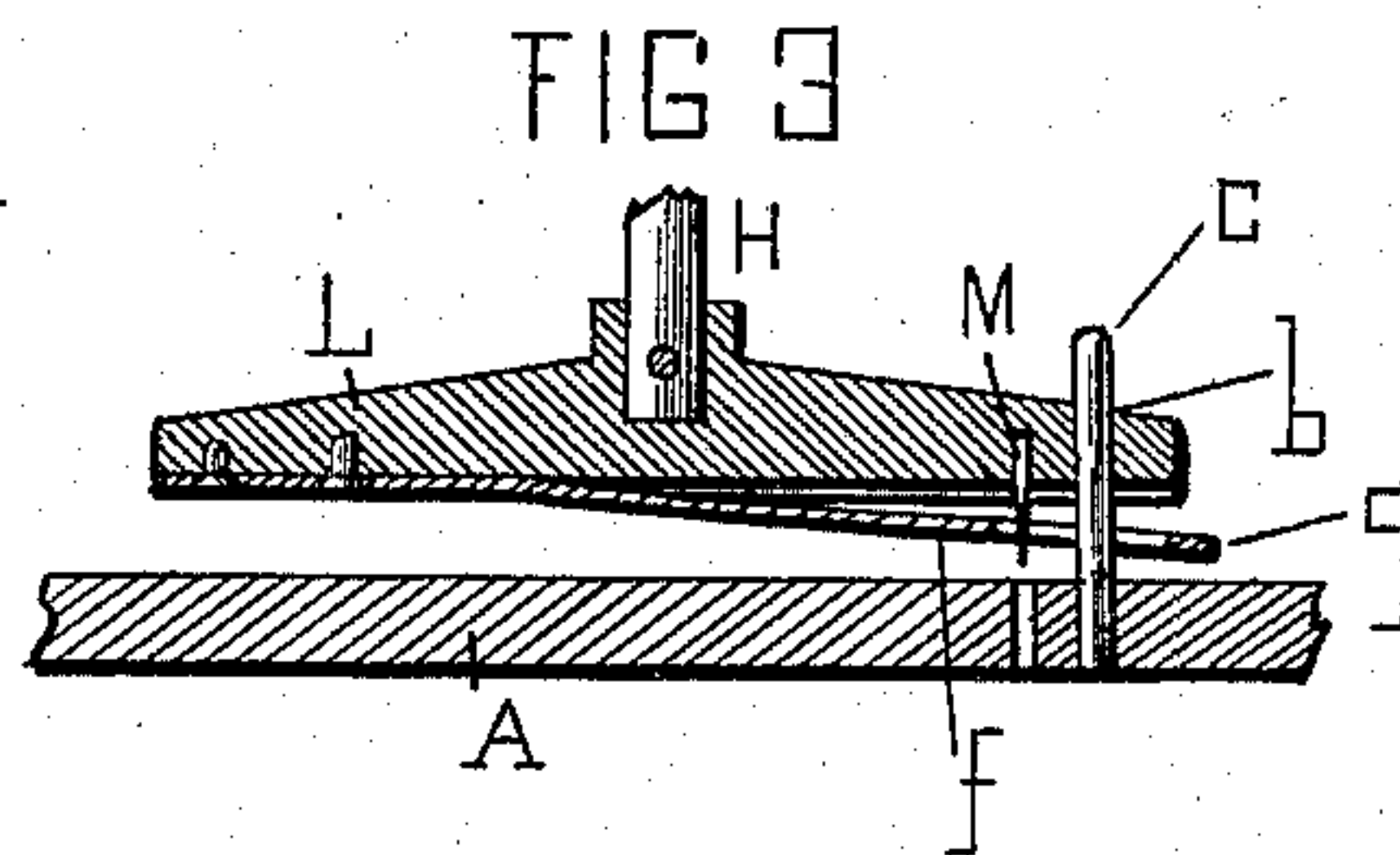
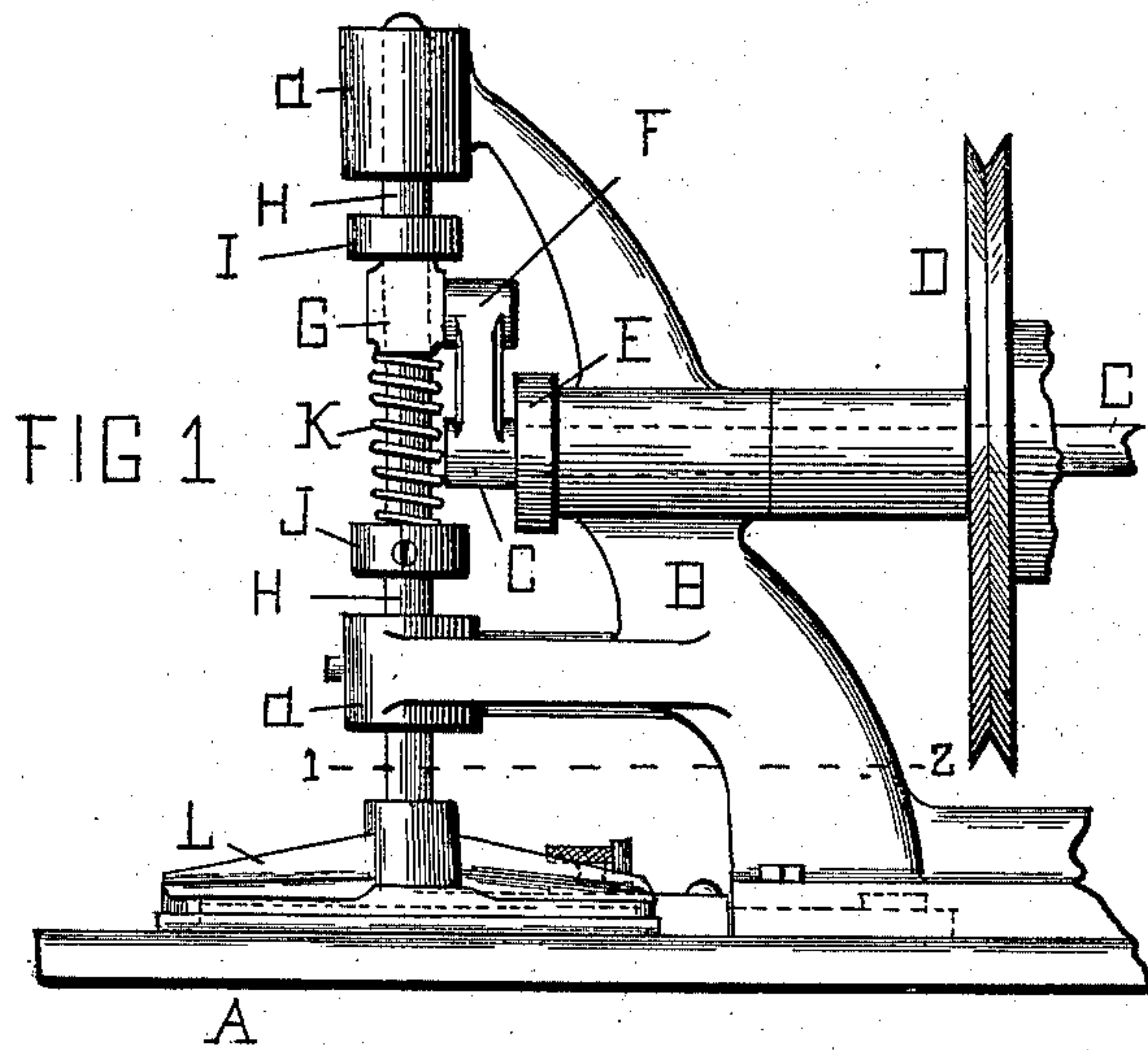
2 Sheets—Sheet 1.

A. B. McCOY.

MACHINE FOR MARKING AND CREASING SHOE VAMPS.

No. 533,368.

Patented Jan. 29, 1895.



Witnesses
John Gaunt
Wm. S. Hoffman

Inventor
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by *Francis D. Pastorius*
Attorney

(No Model.)

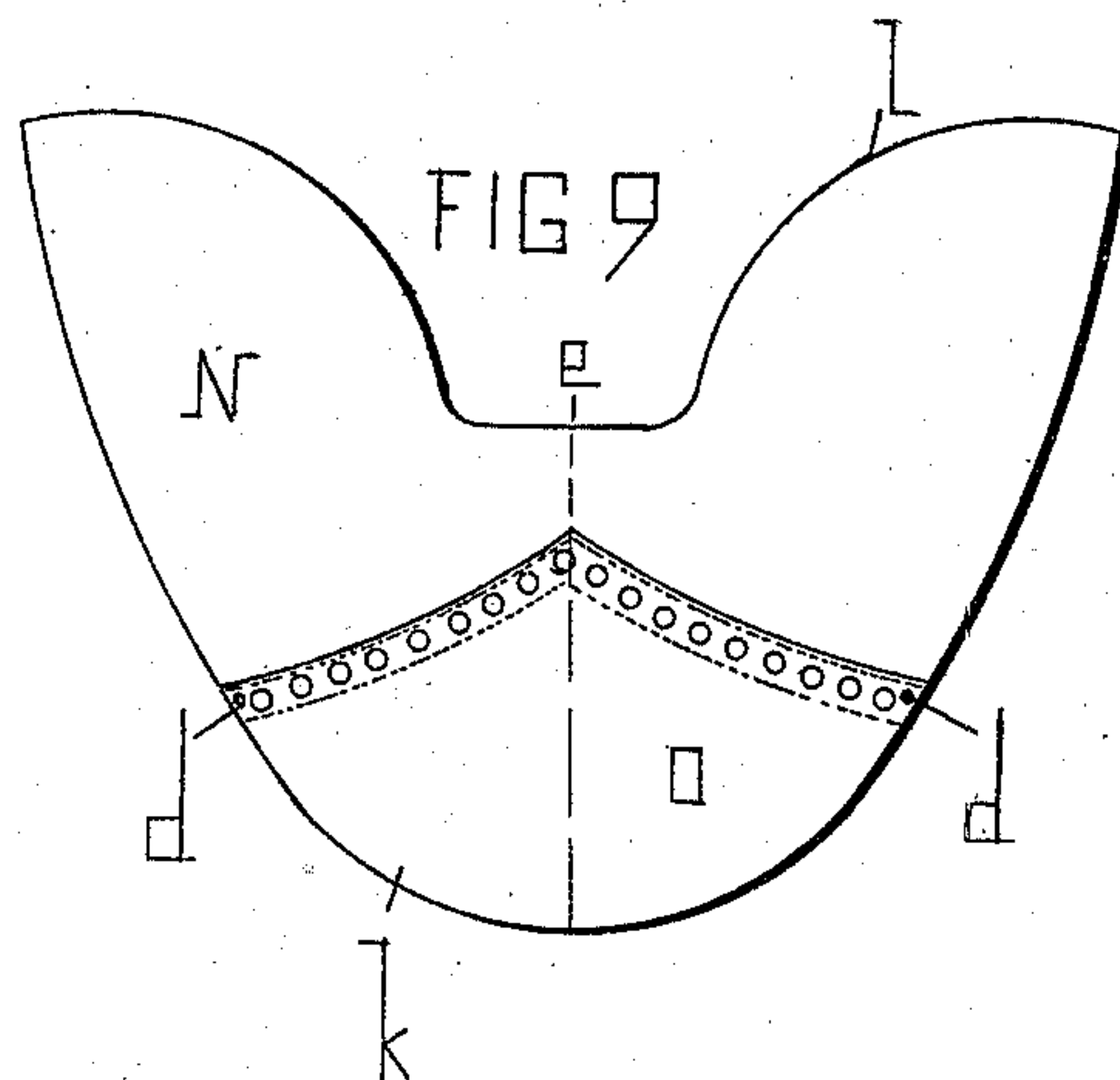
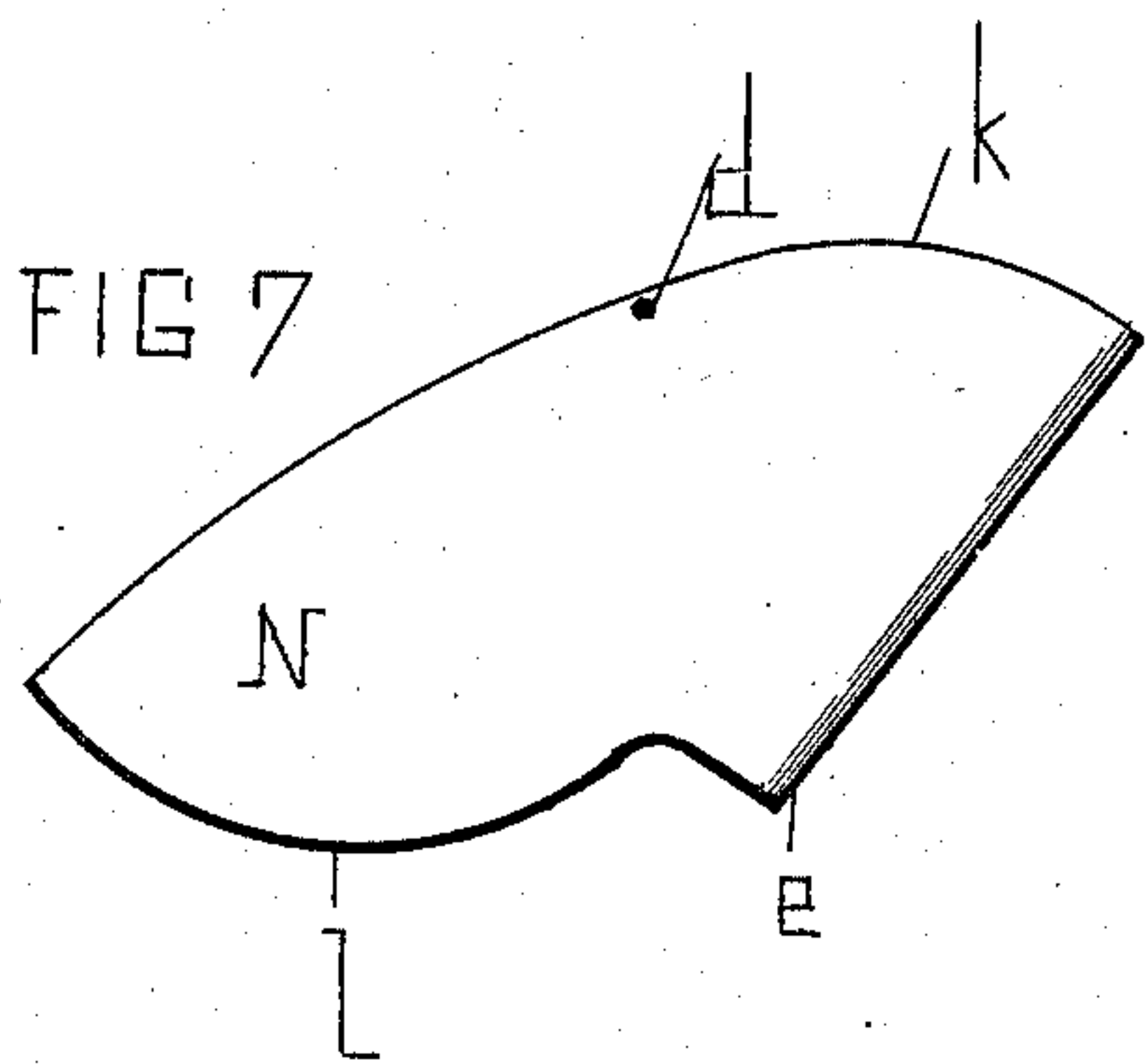
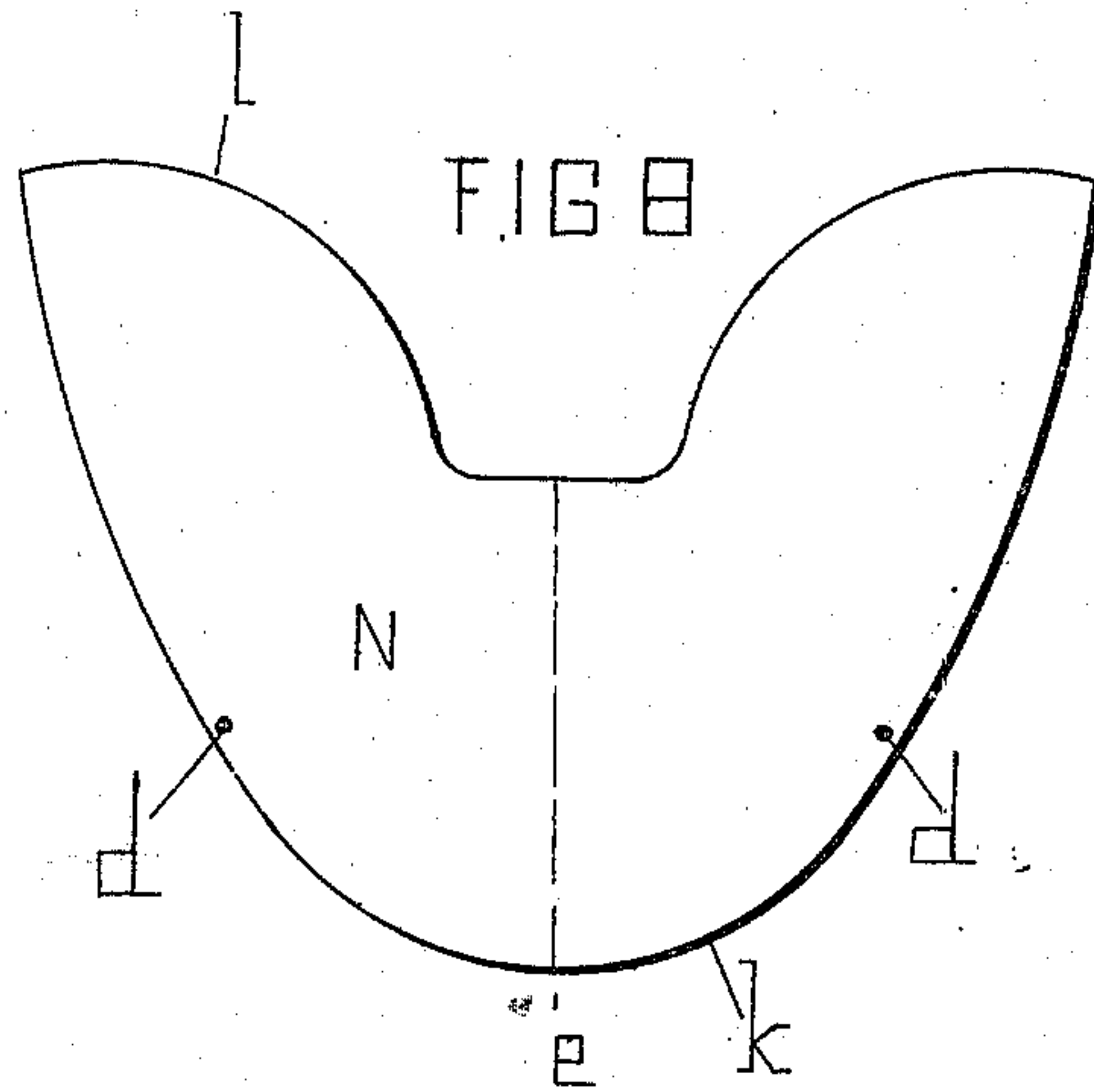
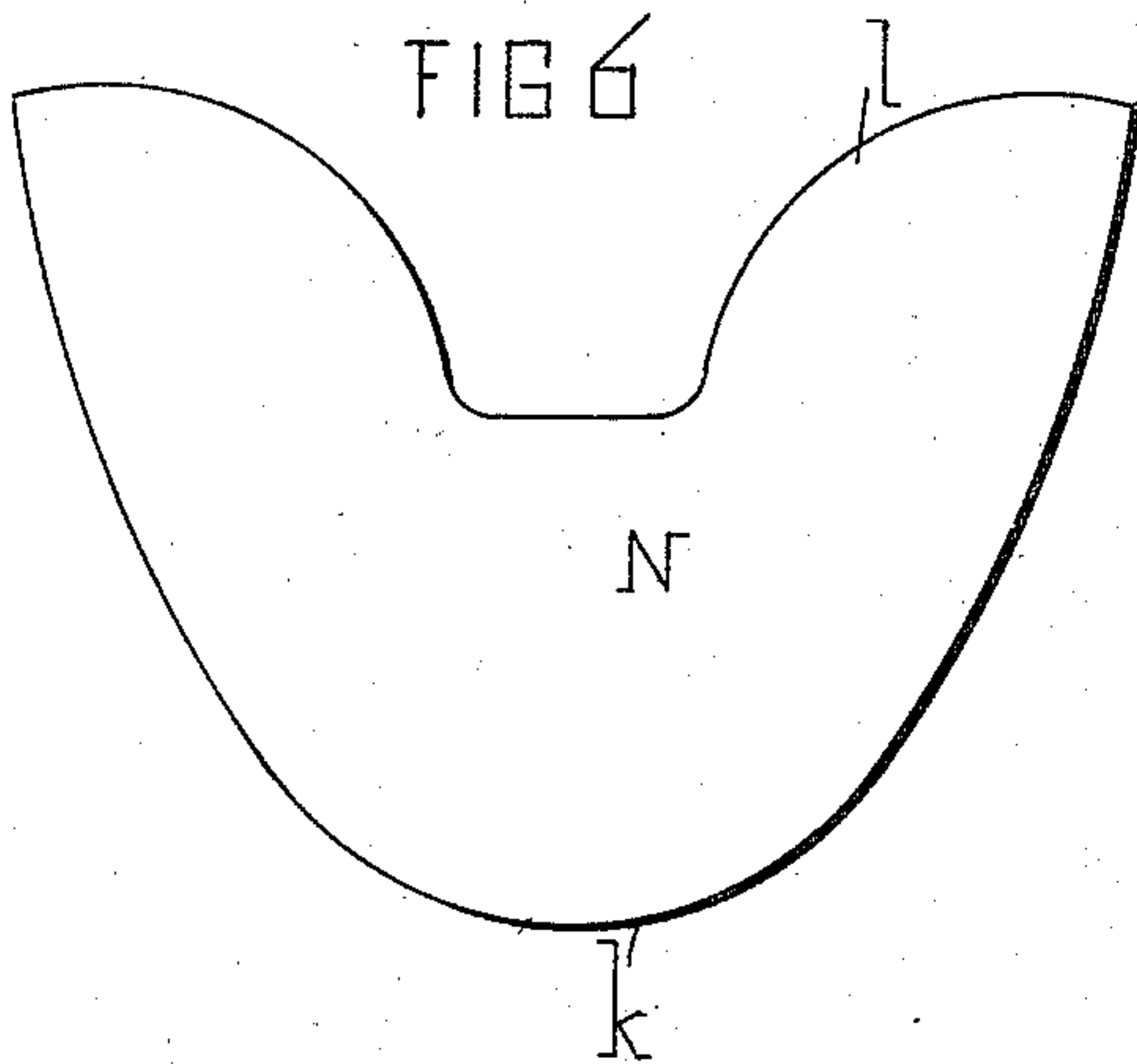
2 Sheets—Sheet 2.

A. B. McCOY.

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Witnesses
Mr. [Signature]
Mr. S. Hoffman.

Inventor
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UNITED STATES PATENT OFFICE.

ALONZO B. MCCOY, OF BURLINGTON, NEW JERSEY, ASSIGNOR OF ONE-HALF
TO JOHN J. RYAN, OF SAME PLACE.

MACHINE FOR MARKING AND CREASING SHOE-VAMPS.

SPECIFICATION forming part of Letters Patent No. 533,368, dated January 29, 1895.

Application filed August 29, 1893. Serial No. 484,341. (No model.)

To all whom it may concern:

Be it known that I, ALONZO B. MCCOY, a citizen of the United States, residing at Burlington, in the county of Burlington and State of New Jersey, have invented a new and useful Machine for Creasing and Punching or Marking a Shoe-Vamp for Positioning the Toe-Tip Thereon, of which the following is a specification.

10 A reciprocating horizontal pressing-bar acts upon a properly supported folded shoe-vamp, and moves in unison with a downwardly projecting punch attached to it, so that said bar presses on the folded-vamp and the punch enters it at the same time, by which a crease is
15 formed in the front or middle of the vamp, and two perforations or marks are made in its curved edges, for centering and locating the toe-piece. Means are provided to cause
20 the pressing-bar and punch to re-act after each creasing and punching in order to give space for the free insertion and removal of the vamp. Thus prepared the toe-tip can be
25 sewed on the vamp without troubling the operator to guess at its position.

On reference to the accompanying sheet of drawings making part of this specification: Figure 1 is a side elevation of a machine embodying my invention. Fig. 2 is a plan view
30 through the line 1—2, Fig. 1. Fig. 3 is a vertical sectioned-view of the pressing bar when raised. Fig. 4 is a vertical sectioned-view of the pressing-bar in its down and operative position. Fig. 5 is a longitudinal section of
35 the pivoted guide-arm and graduated-plate, Fig. 2. Fig. 6 is a plan view of a shoe-vamp before creasing and punching or marking. Fig. 7 is a folded view of a shoe-vamp after creasing and punching or marking. Fig. 8 is
40 a spread-out or plan view of a shoe-vamp after creasing and punching or marking; and Fig. 9 is a plan view of a shoe-vamp and its toe-tip sewed on.

Similar letters refer to similar parts in the
45 several views.

A is the base of the machine, to which is fixed the upright or frame B.

C is a horizontal-shaft, in bearings of the

frame, which is actuated by a pulley D in connection with any suitable clutch-device. 50 To the front end of said shaft is fixed a crank-wheel or crank E, whose connecting-rod F engages with a loose-collar G on a vertical pressing-rod H, which reciprocates, and is supported and guided in bearings, a, of the 55 frame B.

I is an adjustable lifting-collar on the pressing rod H, above and in engagement with connecting-rod loose-collar G, and J another and similar adjustable collar at a convenient distance below on said pressing-rod, the intervening space being occupied by an encircling-spring K, bearing endwise between the crank-collar G and the adjustable-collar J. Said
60 spring K connects the crank E and the pressing-rod H through the medium of the crank-rod F and its loose-collar G, and is the means of converting the rotary motion of the crank into the downward right-line and pressing-
65 motion of the pressing-rod. The degree of downward pressure of the pressing-rod depends upon the distance of the collar J from the collar G, and the consequent elasticity of the spring K. The reaction and lifting of
70 the pressing-rod H is caused by the collar G acting upwardly against the collar I. 75

L is a horizontal vamp-creasing bar and punch adjustably fixed to the end of the pressing-rod H. It has an opening, b, at one end, for the reception of a vertical guide and
80 stay-pin, c, of the base A, and is provided with a depending-punch M for punching or marking the guide holes, d, Figs. 7, 8, and 9, in a folded shoe-vamp N. To the bottom of said bar L is fitted a throw-off spring, f, Fig. 3, the
85 loose end, g, of which, rides over the end of the punch M, and throws the folded vamp from it on the reaction of the pressing-bar L after each creasing and punching.

P is a gage and vamp-guide on the base A, 90 Figs. 2 and 5, composed of an arm Q pivoted on a center, h, of the base, in connection with a graduated-arc R raised above and fixed to said base, through the slot of which passes a set-screw S, which being loosened permits the
95 arm to be turned and adjusted as desired.

The loose end of said arm Q is bent to form a shoulder or bearing, *i*, for the edge of the vamp-fold or crease, and thus insure the correct positioning of the folded-vamp under the pressing bar.

On the application of power, the rotary motion of the crank E is imparted to the loose-collar G, of the pressing-rod H, through the connecting-rod F. Said collar G acting on the adjustable-collar I lifts the rod H. For a down-stroke the motion of the crank is imparted to the loose-collar G, thence to the spring K bearing on the adjustable collar J. The spring serves for an elastic connection and forces down the rod H and bar L with an elasticity consequent upon its degree of compression between the collars, J, thereby adapting the machine to vamps of varying thicknesses without injury to the leather or material.

A vamp N is made ready for creasing and punching or marking, by folding it evenly and equally, the bottom curved-edge, *k*, coinciding, and the top one, *l*, likewise, Fig. 7, after which it is placed on the base A beneath the bar L when in its raised position, Figs. 2 and 3, care being taken to bear the end of the fold or crease in the bend, *i*, of the arm Q which has been previously adjusted in connection with its arc R for vamps of that size. On the descent of the pressing-rod H its horizontal-bar L operates by simultaneously pressing the vamp-fold or crease, *e*, and punching or marking the double bottom-edge, *k*, at, *d*, for locating the position of the top and ends of the toe-piece O on said vamp when open. The horizontal bar reacts after each creasing and punching or marking in order to give space for the free insertion and removal of the vamps. Its elongation or extension both ways beyond its center permits the said pressing-bar L, to operate on vamps of varying sizes, one end or side of the

bar doing the creasing, and the other the double punching or marking.

I claim—

1. In a machine of the character described, the combination of a reciprocating pressing-rod, a collar of the pressing-rod for transmitting a downward motion to it through the medium of a crank, an end-confined encircling-spring of the pressing-rod on which said collar bears for imparting an elastic-pressure to said pressing-rod, a horizontal pressing-bar fixed to the end of the pressing-rod and extended both ways beyond its center, so that one end of it creases a folded-vamp with an elastic pressure and the other end double-punches or marks the folded-edge of said vamp, and a collar of the pressing-rod for reversing its motion, for the purpose shown and described.

2. In a machine of the character described, the combination of a reciprocating pressing-rod, a collar of the pressing-rod for transmitting a downward motion to it through the medium of a crank, an end-confined encircling-spring of the pressing-rod on which said collar bears for imparting an elastic-pressure to said pressing-rod, a horizontal pressing-bar fixed to the end of the pressing-rod and extended both ways beyond its center so that one end of it creases a folded-vamp with an elastic-pressure and the other end double-punches or marks the folded edges of said vamp, a collar of the pressing-rod for reversing its motion, and a vamp-guide on the base of the machine, for the purpose shown and described.

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

ALONZO B. MCCOY.

Witnesses:

JOHN FENIMORE,
JOHN J. NORCROSS.