

(Model.)

2 Sheets—Sheet 1.

Z. BEAUDRY.

Burnishing Tool for Boot and Shoe Heels.

No. 238,206.

Patented March 1, 1881.

Fig: 1.

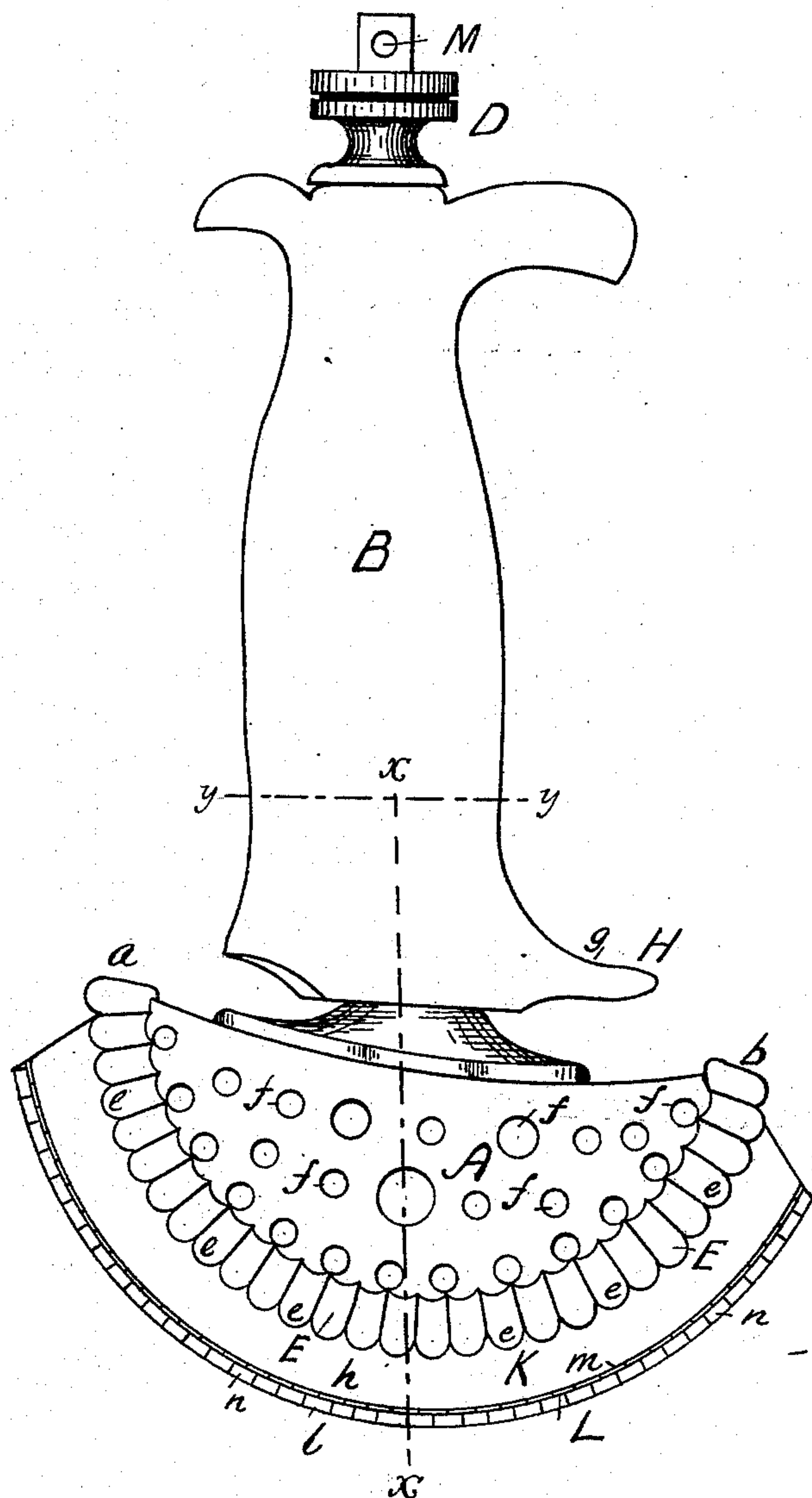
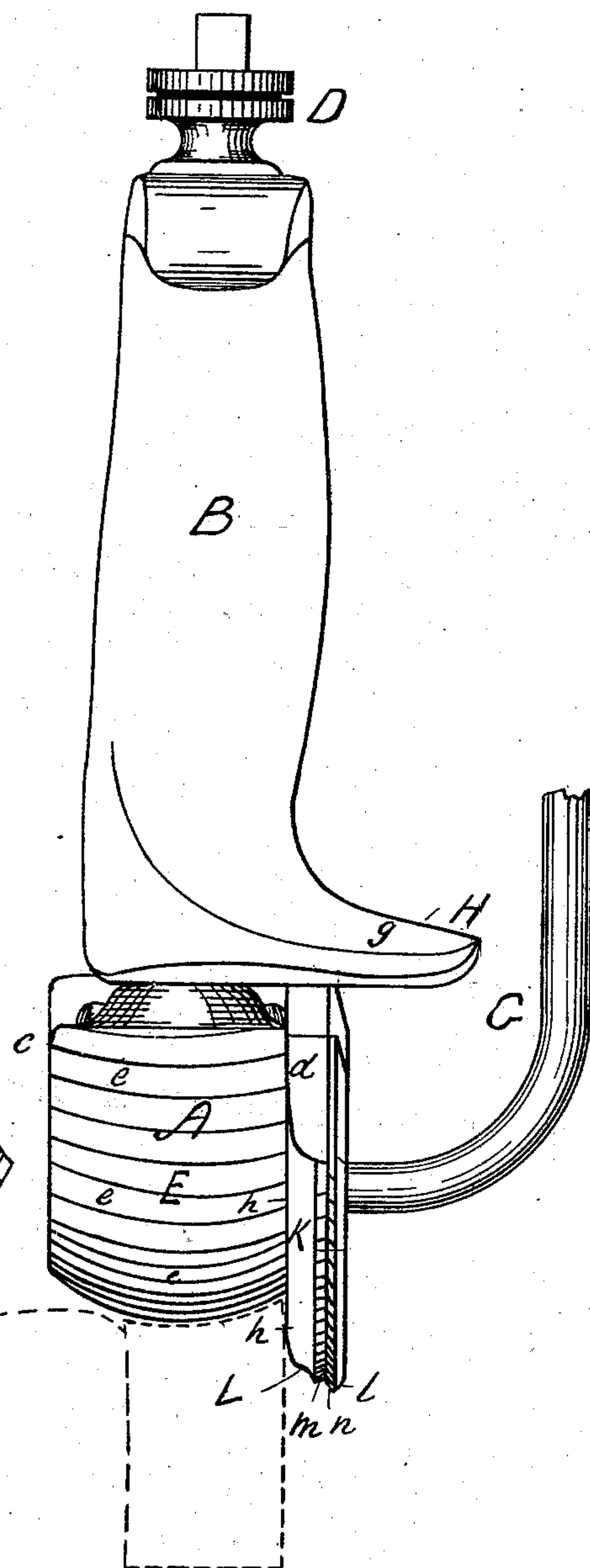


Fig: 2.



Witnesses
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Geo. Haushalter

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(Model.)

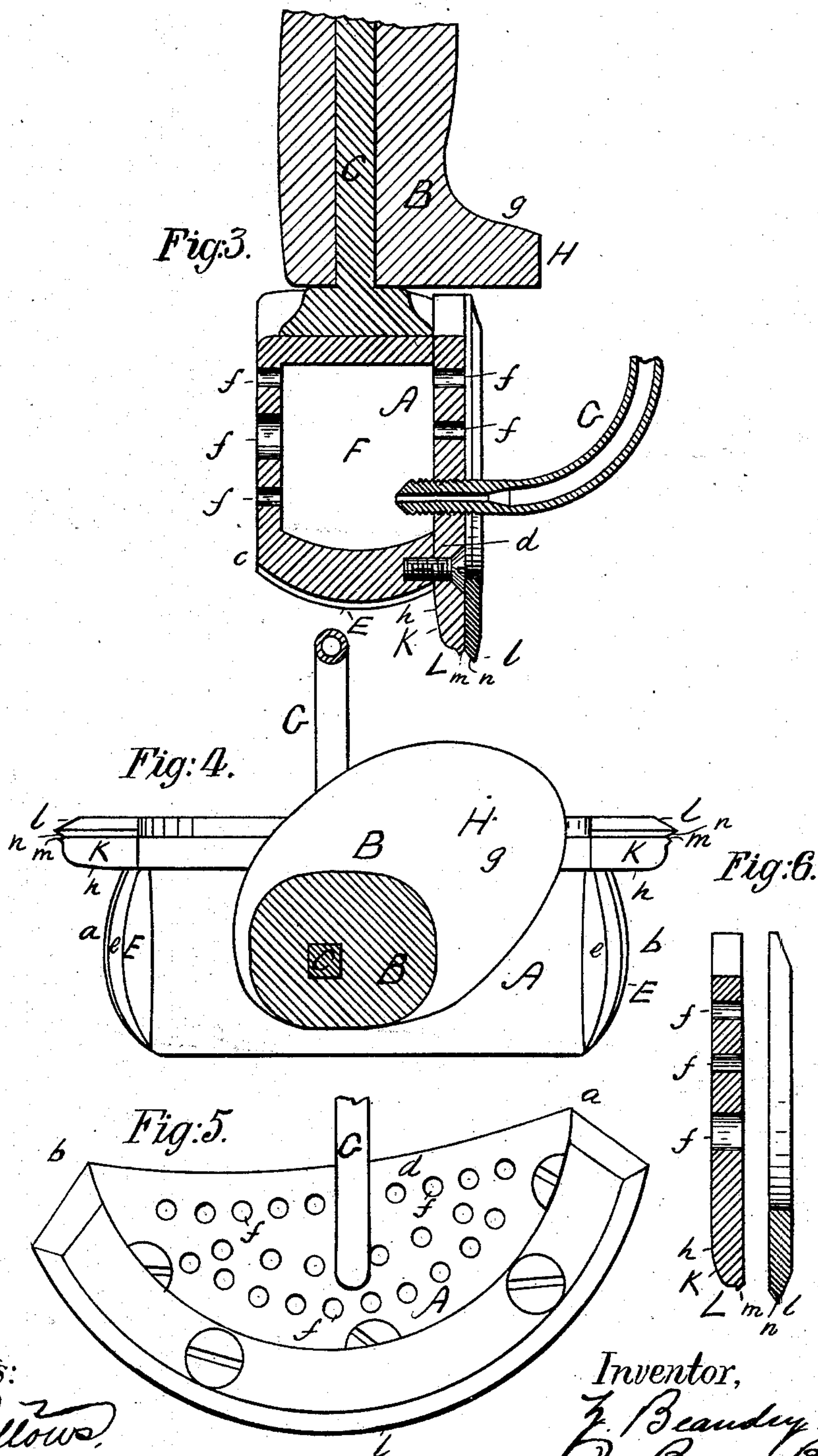
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UNITED STATES PATENT OFFICE.

ZOTIQUE BEAUDRY, OF LYNN, ASSIGNOR OF NINE-SIXTEENTHS TO THOMAS L. HOITT AND UDGER BELIVEAU, OF SAME PLACE, AND JOHN E. PECK, OF NEWTON, MASSACHUSETTS.

BURNISHING-TOOL FOR BOOT AND SHOE HEELS.

SPECIFICATION forming part of Letters Patent No. 238,206, dated March 1, 1881.

Application filed June 26, 1880. (Model.)

To all whom it may concern:

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

This burnishing-tool is for hand use, and it is composed of a burnisher-head and of a handle by which to hold the burnisher-head to its work upon the boot or shoe heel.

The burnisher-head is chambered, and its chamber is suitably constructed and connected by elastic piping or tubing for burning gas within it to heat the burnisher-head and to maintain such heat at a proper degree while the tool is used. The burnisher-face of the burnisher-head is curved from end to end of its length, is convex from side to side of its width, and across its width and for the whole of its length is provided with a series of smooth and polished rounded ribs running in parallel lines and in lines at right angles to the length of the burnishing-face. In addition to the above, one side of the burnisher-head has a flange which projects beyond but concentrically with its burnishing-face; and the surface of this flange toward the burnishing-face is arranged in relation thereto for a bearing against the treading-face of the heel when the burnisher-face of the tool is applied to the edge of the heel, and the outer edge of this flange is constructed for burnishing the face of the heel next to and between the heel and the upper, and for creasing the edge of the heel near such face of the heel, all as hereinafter fully described.

The handle is made of wood or of other suitable material, and in its length is suitably shaped to be conveniently grasped by the hand, and at its inner end, which is the end toward the burnisher-head, it has a flange which projects at right angles to its length, and is shaped all as hereinafter described, to make a seat and rest for the side of the hand which is toward the burnisher-head when the handle is grasped by the hand and the tool is being used.

In the accompanying plates of drawings my

improved hand burnishing-tool for burnishing heels for boots and shoes is illustrated.

In Plate 1, Figures 1 and 2 are, respectively, side and edge views. In Plate 2, Figs. 3 and 4 are, respectively, sections on lines *xx* and *yy*, Fig. 1. Fig. 5 is a view of the burnisher-head on the side opposite to that shown in Fig. 1; and Fig. 6 is a sectional view of the flange to the burnisher-head detached from the burnisher-head and the parts making it when applied separated from each other.

In the drawings, A represents the burnisher-head, and B the handle, secured to and over the square shank C of the head by a screw-nut, D, screwed upon the outer end of the shank.

E is the burnishing-face of the burnisher-head. This burnishing-face E is curved from end *a* to end *b* of its length, (see Figs. 1 and 5,) and is convex from side *c* to side *d* across its width, (see Figs. 2, 3, and 4,) and in its width is provided with a series of parallel smooth-polished rounded ribs, *e*, at right angles to the length of the face E and from side *c* to side *d* of the head. This convexity of the burnishing-head corresponds to the concave which is generally given to the edges of boot and shoe heels between the treading-face of the heel and the upper of the boot or shoe. The burnisher-head A is hollow or chambered, as at F, and its sides *c* and *d* have perforations *f*, which open to the outside of the head and to the inside of the chamber F, and make communications for air to enter the chamber.

G is a pipe leading and opening into the chamber F at one side of the head A. This pipe is for the supply of gas to the chamber F for being burned therein, and it is to be connected in any suitable manner—as, for instance, by elastic or flexible tubing—to a gas-supply. Elastic or flexible tubing is preferable, as it enables the tool to be moved about as desired. The perforations in the sides of the burnisher-head permit air to enter the chamber F and mingle with the gas which enters therein, and consequently secures combustion of the gas. The burning of the gas heats the burnisher-head, and consequently, by reg-

ulating the supply of gas in the ordinary manner, the burnisher-head, when used, may be held and maintained at the degree of heat desired.

5 The handle B from end to end is shaped to be conveniently grasped by the hand, and at its inner end—that is, the end toward the burnisher-head—it is provided with a flange, H, which projects at right angles to its length. *g* is the face of the handle-flange H toward the hand grasping the handle. This face *g* is suitably rounded to fit the part of the hand which is toward it, and through the flange H a rest and support is given to the hand in the use of the tool, and thus the operator is enabled to hold the tool with greater power and rigidity to its work of burnishing the heel.

K is a flange attached to the right-hand side of the burnisher-head, and projecting beyond and concentrically with the burnisher-face E. The face *h* of the flange K toward the burnishing-face is smooth and plain, and when the burnishing-face of the tool is applied to the edge of a boot or shoe to burnish it such face *h* lies and bears against the treading-face of the heel, as shown in Fig. 2.

L is the outer edge of the flange K. This edge L is concentric from end to end with the curvature of the burnishing-face E, and it is corrugated, as at *m*, in the direction of its width from end to end of its length, and beyond it a lip or bead, *l*, projects, which is secured to, and thus makes a part of, the flange K. This lip is concentric with the edge L of flange K, and it is corrugated at and upon its face toward the flange edge L. This corrugated lip *l* is for burnishing and smoothing the face of the heel toward and next to the upper of the boot or shoe and between it and the heel edge, and the corrugated edge L of the flange K is for grooving the heel edge near the upper, and burnishing and smoothing such groove preparatory to the heel being afterward corrugated or ribbed along such groove, as is customary in the manufacture of boots and shoes.

To use this burnishing-tool for burnishing the edges of heels to boots and shoes, grasp the tool by the hand and place its burnishing-face E in contact with the edge of the heel and the smooth face *h* of the flange K on the burnisher-head against the treading-face of the heel, and then roll the burnisher-face E about and around the edge of the heel, and at the same time, either by hand or by machinery or by a jack, roll the boot or shoe heel around in the opposite direction to the roll of the burnishing-face, and continue so to do until the desired finish or burnish and polish is secured. The length of burnisher-face is such that one roll of it for its whole length about the edge of a heel will encompass the whole periphery of the heel edge, and thus, with a corresponding length of roll of the heel edge, it is found by practice that not more than three, and often not more than two, rolls of the burnishing-face are ample and sufficient to obtain the most perfect burnish and finish, and a finish in which the

wax is most smoothly and evenly spread and the surface, when burnished, free of any wavy appearance.

In the use of the tool to burnish the edge of the heel, as above described, the corrugated edge L and lip *l* of the flange K perform no function. Their use is after such burnishing is completed, and then it is by placing the lip *l* in and between the heel and the upper, with its corrugated face *n* against the face of the heel, between the heel and the upper, and with its corrugated edge *m* against the edge of the heel, and then rolling the tool over and around the heel and the heel over and around the tool, but in a direction opposite to the roll of the tool. This secures the burnish and finish of the face toward and between the heel and the upper and at the line of junction of such face and the heel edge, and it also secures a grooving of the edge of the heel near the upper preparatory to the after ribbing or corrugating of the heel along such groove, as is practiced in boot and shoe manufacture.

In both uses of the tool above described the burnisher-head is heated and kept at a suitable degree by means of gas, as stated, and for convenience in the use of the tool it is to be suspended by an elastic connection secured to it at its eye M.

Heretofore rotary burnishers have been mounted upon and driven by shafting, and a rotary burnisher has been made convex along its length and provided with longitudinal ribs; also, burnishers of such description have been heated by an internal gas-jet, and a rotary burnisher has been provided with a circular guard or rest plate at one of its ends; but such I do not claim broadly.

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

1. A hand burnishing-tool composed of a burnishing-head, A, having a burnishing-face, E, curved in its length from end to end, and across its width made of a convex shape, and provided with ribs *e*, a chamber, F, having perforations *f*, and a gas-connection, in combination with a handle suitable to be grasped by the hand, all substantially as described, for the purpose specified.

2. A burnisher-head of a burnishing-tool for burnishing the edges of boot and shoe heels provided with the ribbed lip or bead *l* and ribbed edge *n*, all substantially as and for the purpose described.

3. A burnisher-head provided with the flange K and lip or bead *l*, made in separate parts, attached together, and each ribbed, all substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ZOTIQUE BEAUDRY.

Witnesses:

EDWIN W. BROWN,
WM. S. BELLOWS.