

(No Model.)

A. M. BOWERS.

LEATHER FINISHING OR IRONING MACHINE.

No. 363,585.

Patented May 24, 1887.

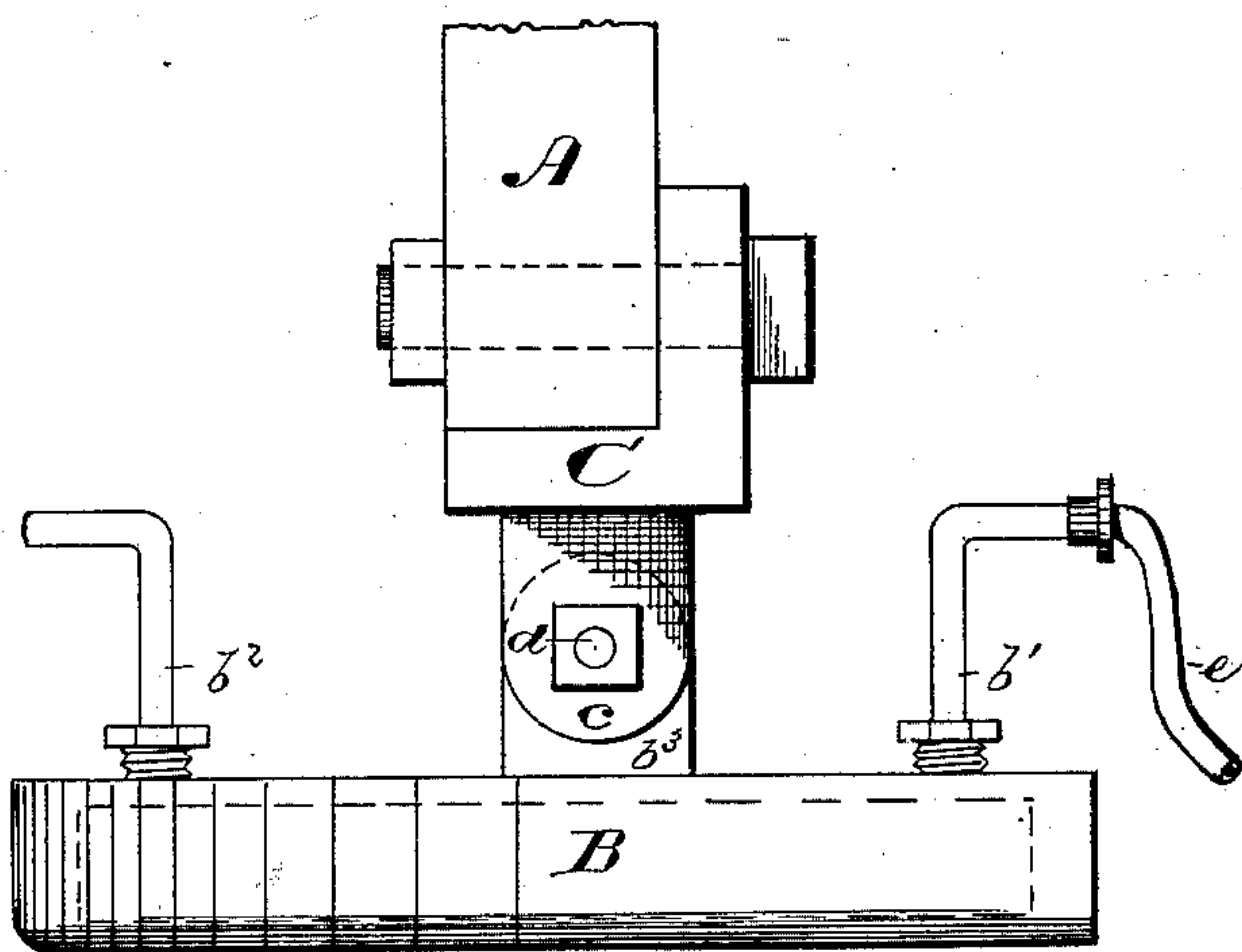


Fig. 1.

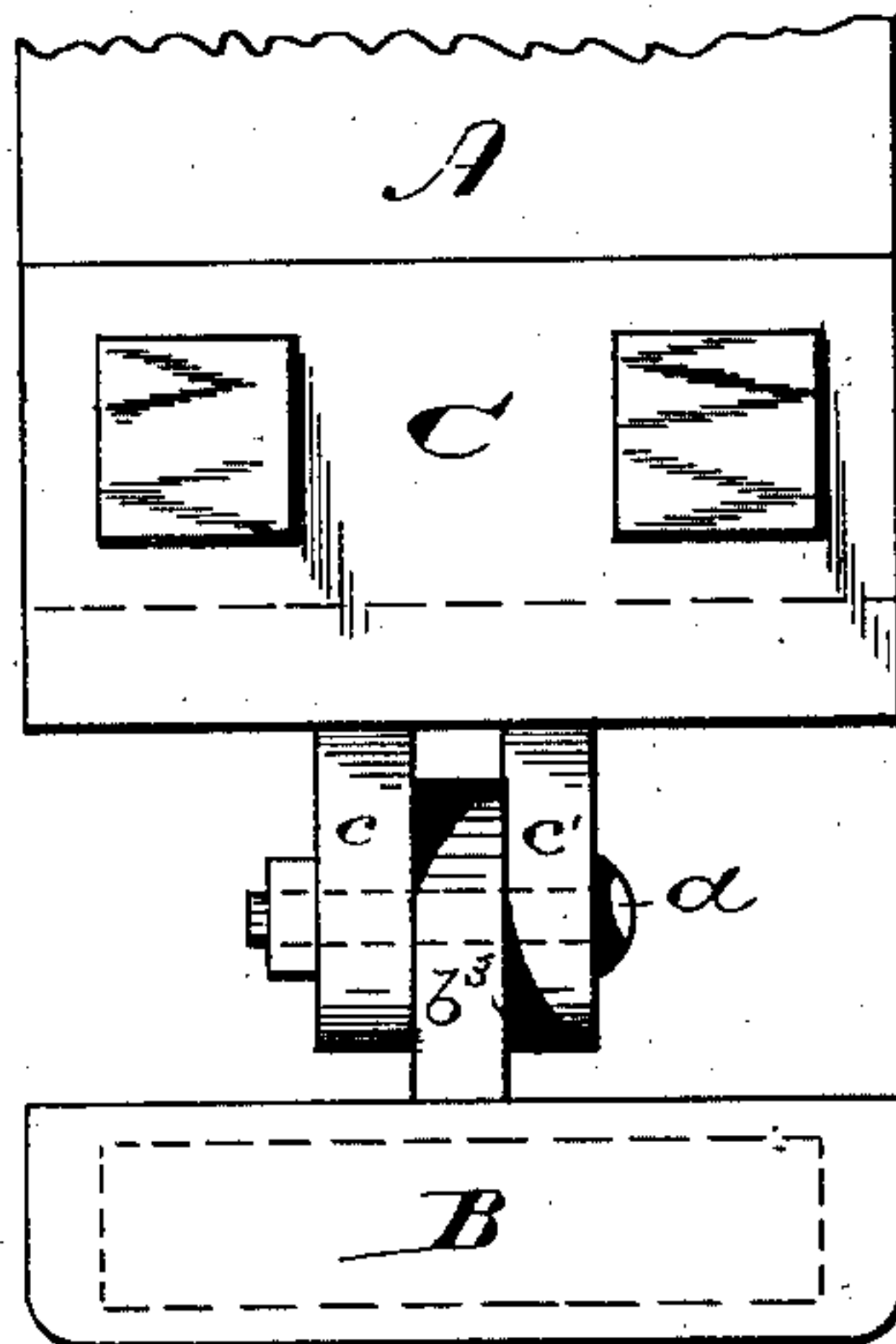


Fig. 2.

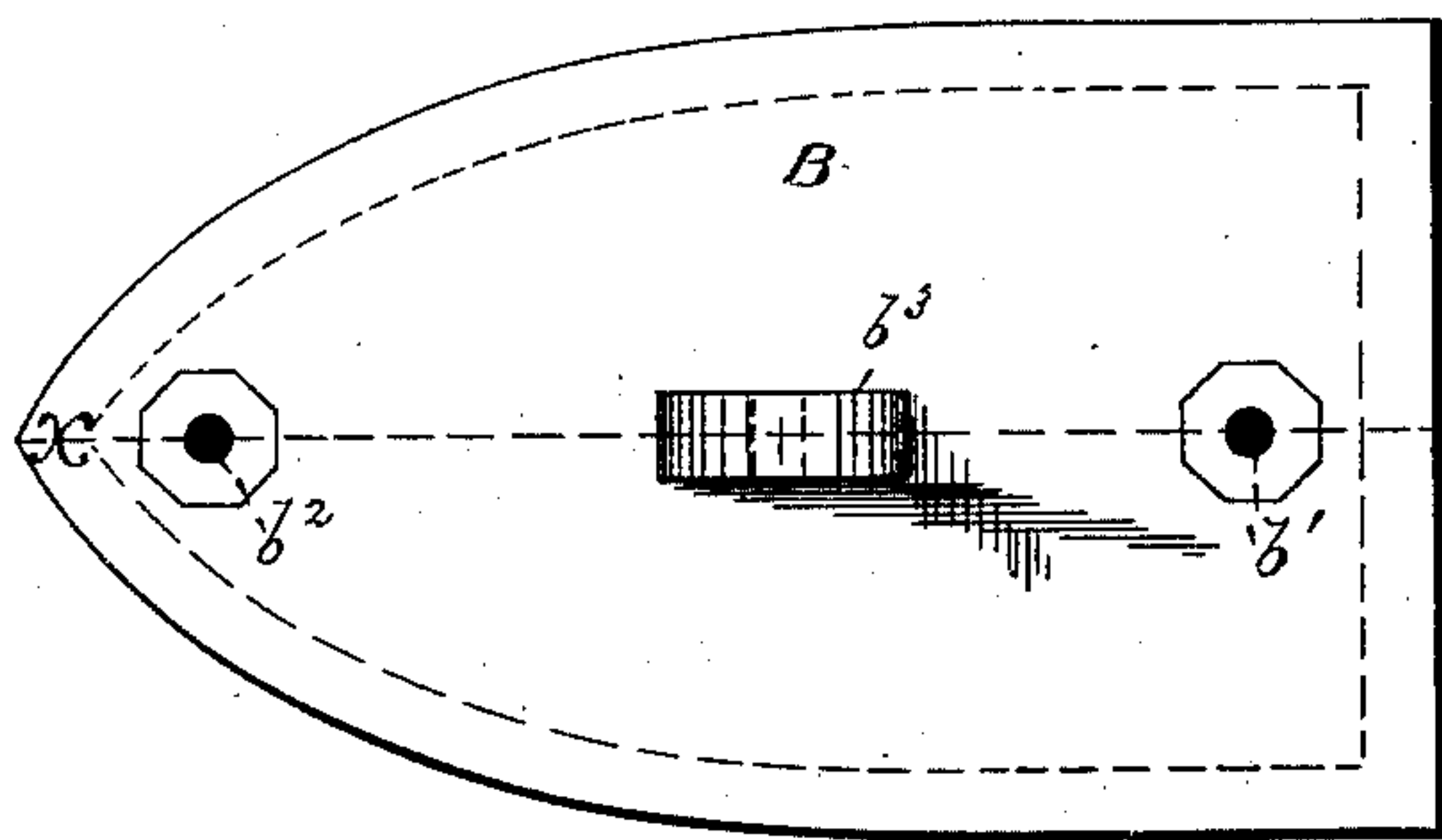


Fig. 3.

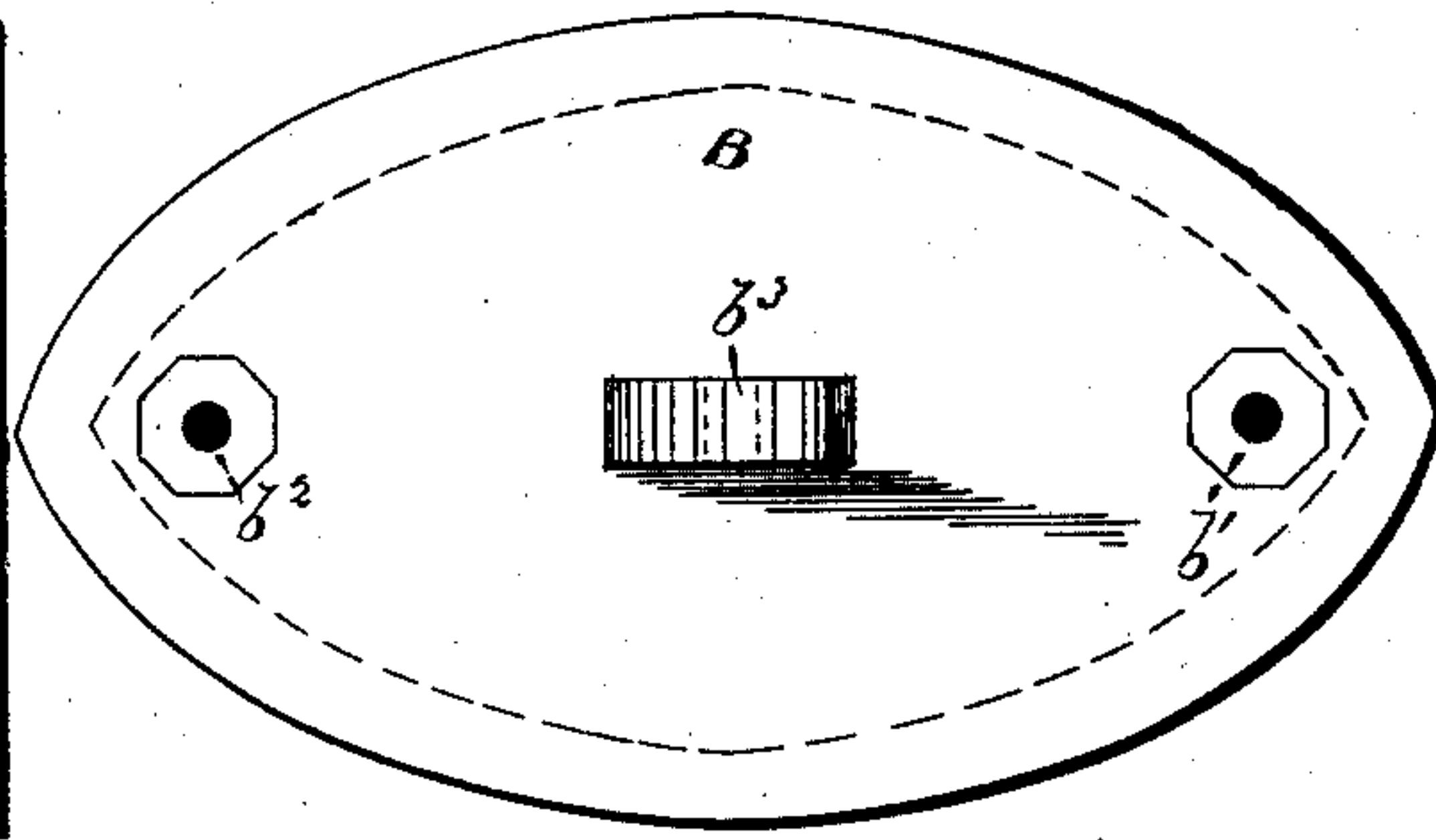


Fig. 4.

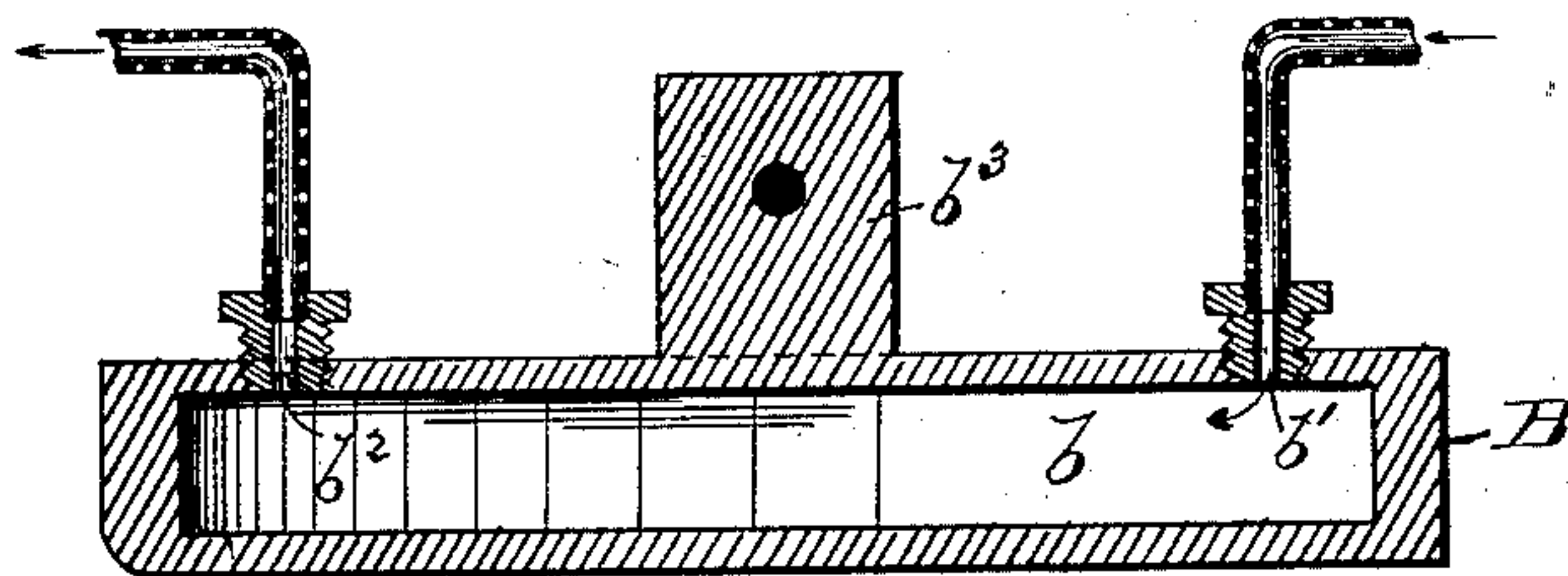


Fig. 5.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ALBERT M. BOWERS, OF NEWARK, NEW JERSEY.

LEATHER FINISHING OR IRONING MACHINE.

SPECIFICATION forming part of Letters Patent No. 363,585, dated May 24, 1887.

Application filed June 25, 1886. Serial No. 206,199. (No model.)

To all whom it may concern:

Be it known that I, ALBERT M. BOWERS, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Ironing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

In said drawings, in which similar letters of reference are employed to designate like parts in each of the several views, Figure 1 is a side elevation of my invention and a portion of a machine for operating the same. Fig. 2 is an end elevation of the parts shown in Fig. 1. Fig. 3 is a plan of one form of the smoothing-iron. Fig. 4 is a similar view of another form of iron, and Fig. 5 is a longitudinal section of the iron illustrated in Figs. 1 to 3.

One of the objects of the invention is to enable an ordinary flat sad or smoothing iron to be used in connection with suitable machinery, instead of working the same by hand, and, further, to heat the same while in use continuously and regularly.

Among the uses to which the invention may be applied are ironing cloth or heavy goods or fabrics of any description, in glossing or smoothing leather, and for a variety of allied purposes.

In Patent No. 339,134, issued to me April 6, 1886, is illustrated one form of mechanism with which my present invention may be used when employed in treating leather, the drawings, hereinabove referred to, showing a portion of the oscillating beam in said machine. When used on an oscillating beam swinging and moving around a fixed center, the sad-iron is preferably pivotally attached to said beam, to allow the said iron to adapt itself to the surface over which it is moving.

A in the drawings, which illustrates one arrangement of the invention, indicates the oscillating beam, to which is pivotally attached the sad-iron B, preferably by means of a head, C, which is bolted to said beam, and is provided with downwardly-projecting lugs *c c'*.

The sad-iron is provided with a chamber or cavity, *b*, therein having steam-ducts *b' b''* leading to and from the same, and a lug, *b³*, centrally formed on said iron, as indicated in Figs. 3 and 4, which, when adjusted in operative relation to the head, projects up between the lugs *c c'*, as shown in Fig. 2, and is held therebetween by a bolt, *d*, which allows the sad-iron to turn freely thereon, to accommodate itself to the inequalities of the face over which it is passing.

To the steam-ducts are attached flexible tubing *e*, which conducts the steam to and from the ducts and permits the free movement of the sad-iron.

As will be understood, other methods of securing the sad-iron pivotally to the head or beam may be readily devised; hence I do not wish to limit the invention to the exact construction shown.

The sad-iron may be conically pointed at either or both ends, as illustrated in Figs. 3 and 4, and when used without being heated is preferably made solid without the hollow interior and steam ducts. When used for treating leather, this form of tool is of great advantage, because of its flat working-surface and pointed end or ends, spreading and working down the grain of the leather and providing a smooth and glossy surface. The tool for this purpose may be made of any well-known or suitable material adapted to produce the desired effect, as glass, stone, metal, &c.

In the machine shown in my patent numbered 339,134, referred to above, the movement of the oscillating beam is such that the tool is upon the leather during but one movement of the said beam. With a motion of this kind the single-pointed sad-iron or tool is preferably used; but when the tool remains upon the leather or cloth and moves backward and forward thereon the double-pointed tool is considered better adapted for the work.

To enable the tool or sad-iron to more positively act upon the leather, and, if desirable, to mark the same with any pattern, the flat working-surface may be ribbed, corrugated, or cut in any way to secure the end desired.

Having thus described my invention, I desire to claim the following:

1. The combination, with a head, C, adapted

to be secured to the oscillating beam of a leather-finishing machine, and provided with projecting lugs *c c'* thereon, of a hollow sad-iron having steam-ducts leading into and from the interior thereof, and provided with a lug, 5 *b³*, thereon, and pivotally secured to said head by a bolt passing through said lugs *c c' b³*, substantially as and for the purposes set forth.

2. An improved leather-ironing tool, combining therein a head, C, adapted to be secured to an oscillating beam, and which is provided with pivotal bearing, and a hollow sad-iron, B, pivoted upon said head and provided with

a flat working-surface, steam-ducts *b' b²*, leading to and from the chamber in said sad-iron, 15 and tubing to conduct the steam to and from the ducts, said parts being arranged and combined substantially as and for the purposes set forth.

In testimony that I claim the foregoing I 20 have hereunto set my hand this 23d day of June, 1886.

ALBERT M. BOWERS.

Witnesses:

FREDK. F. CAMPBELL,

FRED. C. FRAENTZEL.