

No. 746,510.

PATENTED DEC. 8, 1903.

B. HOLZ, JR.
SAD IRON.

APPLICATION FILED JUNE 30, 1903.

NO MODEL.

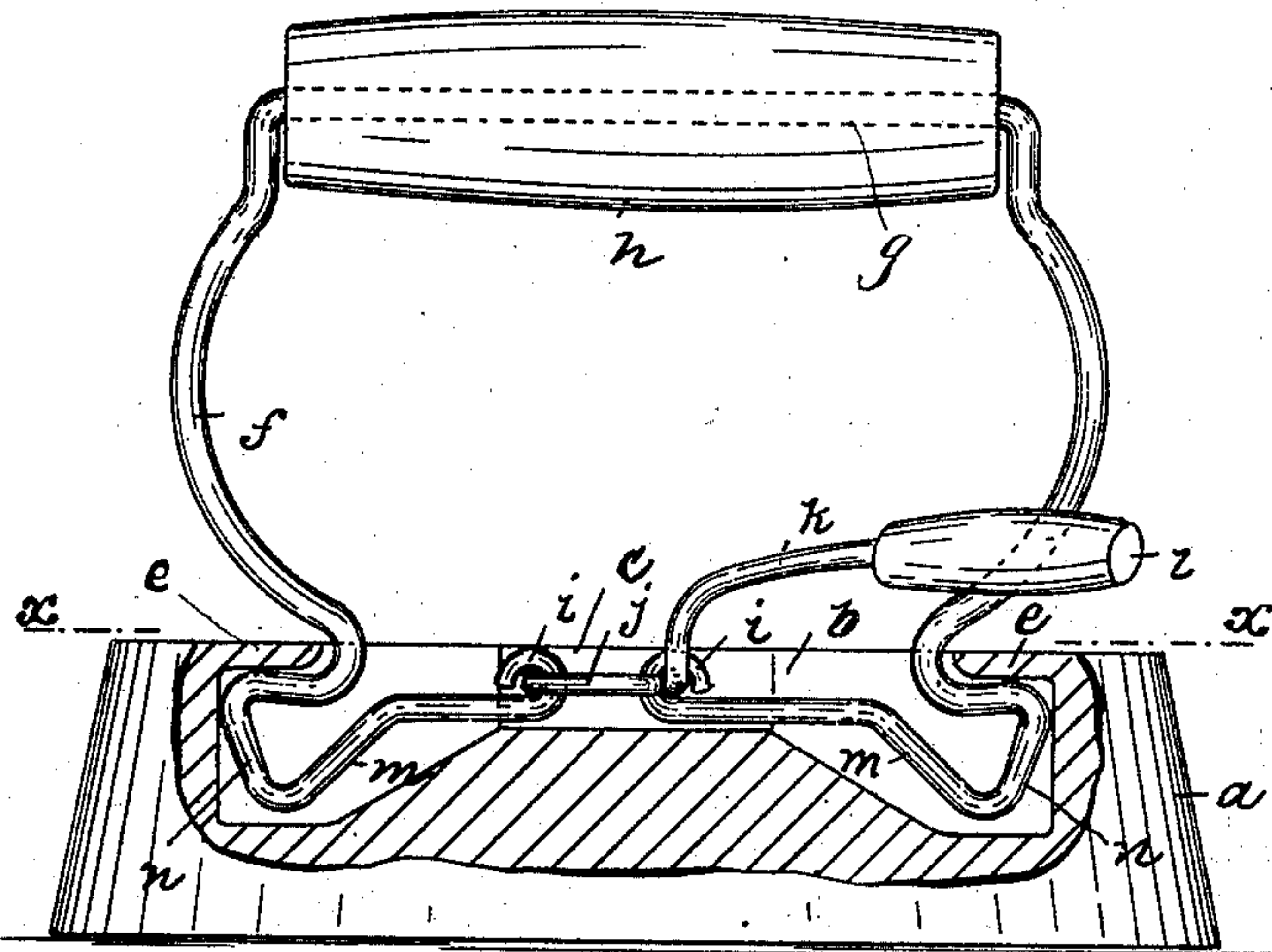


Fig. 1.

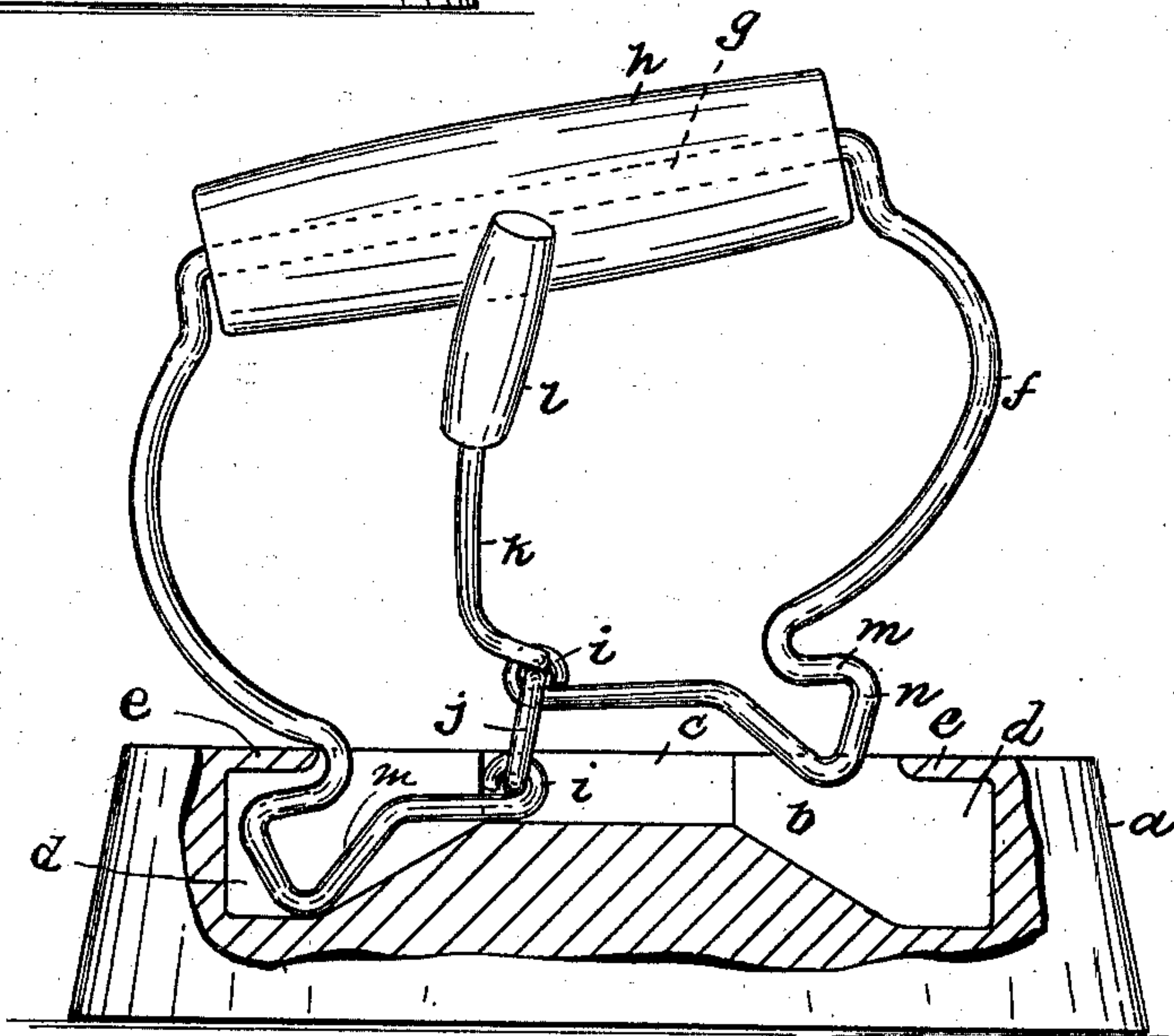


Fig. 2.

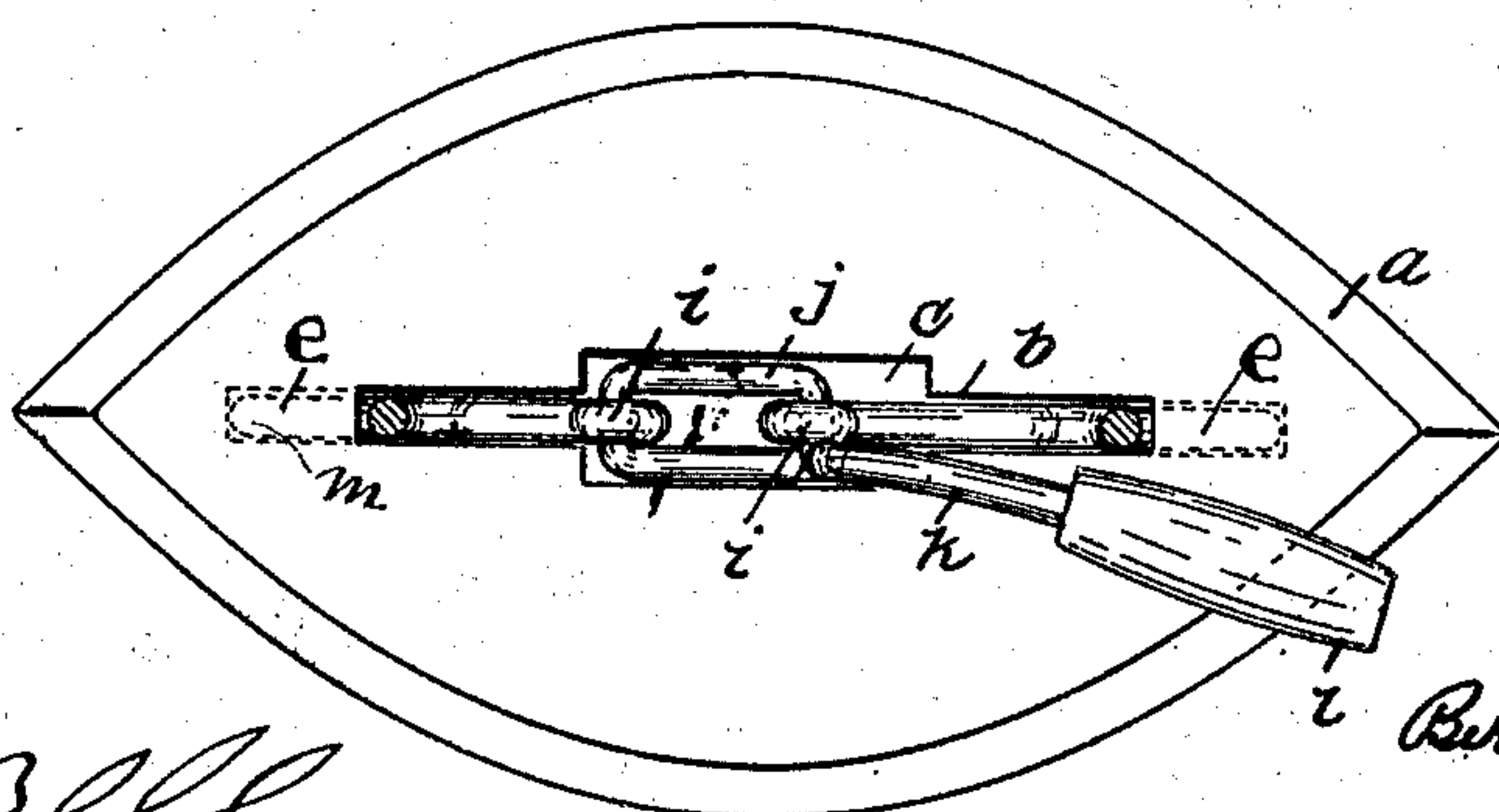


Fig. 3.

WITNESSES:

Wm. Drell.
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BY

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UNITED STATES PATENT OFFICE.

BERNHARD HOLZ, JR., OF PATERSON, NEW JERSEY.

SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 746,510, dated December 8, 1903.

Application filed June 30, 1903. Serial No. 163,737. (No model.)

To all whom it may concern:

Be it known that I, BERNHARD HOLZ, Jr., a citizen of the United States, residing in Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Sad-Irons; 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 ap-
 10 pertains 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.

This invention relates to sad-irons of the type in which the handle is arranged to be detachable from the iron proper; and it has for its principal object to so construct the parts that while the handle may be readily detached when attached to the iron its hold
 15 on the same is reliable and substantial.

The invention will be found fully illustrated in the accompanying drawings, wherein—

Figure 1 is a view, partly in side elevation and partly in section, of a sad-iron constructed after the principles of my invention, the parts
 25 being in their interlocked position. Fig. 2 is a view substantially similar to Fig. 1 except that the handle is shown as partly detached from the iron, and Fig. 3 is a view showing
 30 the handle in section on the line $x x$ in Fig. 1.

The iron proper, a , is formed with an elongated recess b , which is somewhat widened at c and which at d is depressed and extends under the top surface of the iron proper, so
 35 that a bridge or overhang e is, in effect, formed at both ends of the iron. The iron proper may be cast with this recess formed therein.

The handle is constructed as follows: f is a stout elastic wire formed straight at g , where
 40 it carries a grip h of some non-heat-conducting material. The general configuration of the handle is that of a loop, the two ends of the wire being normally disposed end to end. Said ends are bent into the form of eyes i ,
 45 each of which is penetrated by the loop portion j of a lever k , also preferably formed of stout wire and having its free end provided with a handle l of non-heat-conducting ma-

terial. By elevating the handle from the position shown in Fig. 1 to that shown in Fig. 2
 50 the loop which the wire f forms is contracted. At $m m$, a short distance from the extremities of the wire f , rebends are formed which have approximately the shape of the ends of the recess b . These rebends are substan-
 55 tially triangular in form, the portion n in each being relatively convergent to the portion n in the other.

In fitting the handle to the iron the lever k is raised, so as to contract the loop which wire
 60 f forms and bring the rebends m closer together. The lower part of the handle portion is then introduced into the recess b of the iron until both rebends come below the bridges e , whereupon the lever is released, so that the
 65 elasticity of the wire f causes the rebends to spread and take in under said bridges. By making the portions n of the rebends m convergent the assembling of the parts is facilitated, as will be obvious. The parts being
 70 assembled, the handle cannot be detached except the lever is thrown up far enough so that one of the rebends clears bridge e . When that is done, the handle may be elevated to
 75 the position shown in Fig. 2 and then re-

moved.
 Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a sad-iron, the combination of the iron
 80 proper, a handle member comprising a gripping portion and elastic attaching portions extending in substantially the same direction from the gripping portion, said attaching por-
 85 tions having relatively reverse projections adapted to be interlocked with the iron proper, and a lever, pivotally connected to each of said attaching portions, for forcing said elas-
 90 tic portions out of interlocking engagement with the iron proper, substantially as de-

scribed.
 2. In a sad-iron, the combination of the iron
 proper, a handle member consisting of an elas-
 tic wire having its middle portion substan-
 95 tially straight and its end portions projecting

middle portion and formed with relatively reverse rebends, the iron proper being provided with recesses adapted to receive said rebends so as to interlock the handle with
5 the iron proper, and a lever pivotally connected to the extremities of said wire, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 29th day of June, 1903.

BERNHARD HOLZ, JR.

Witnesses:

JOHN W. STEWARD,
ROBERT J. POLLITT.