

J. T. FEWKES.

Sad-Irons.

No. 135,791.

Patented Feb. 11, 1873.

Fig. 1.

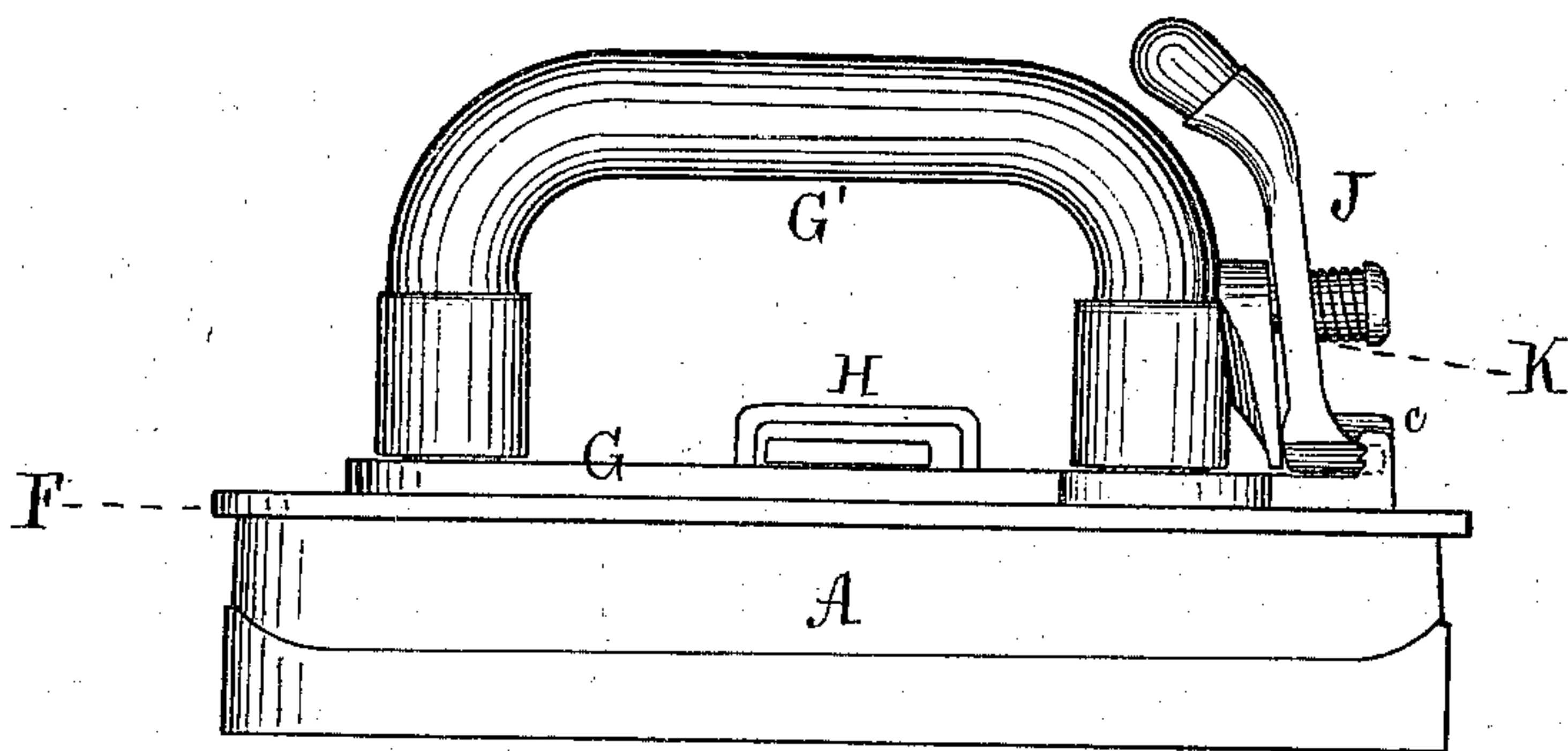


Fig. 2.

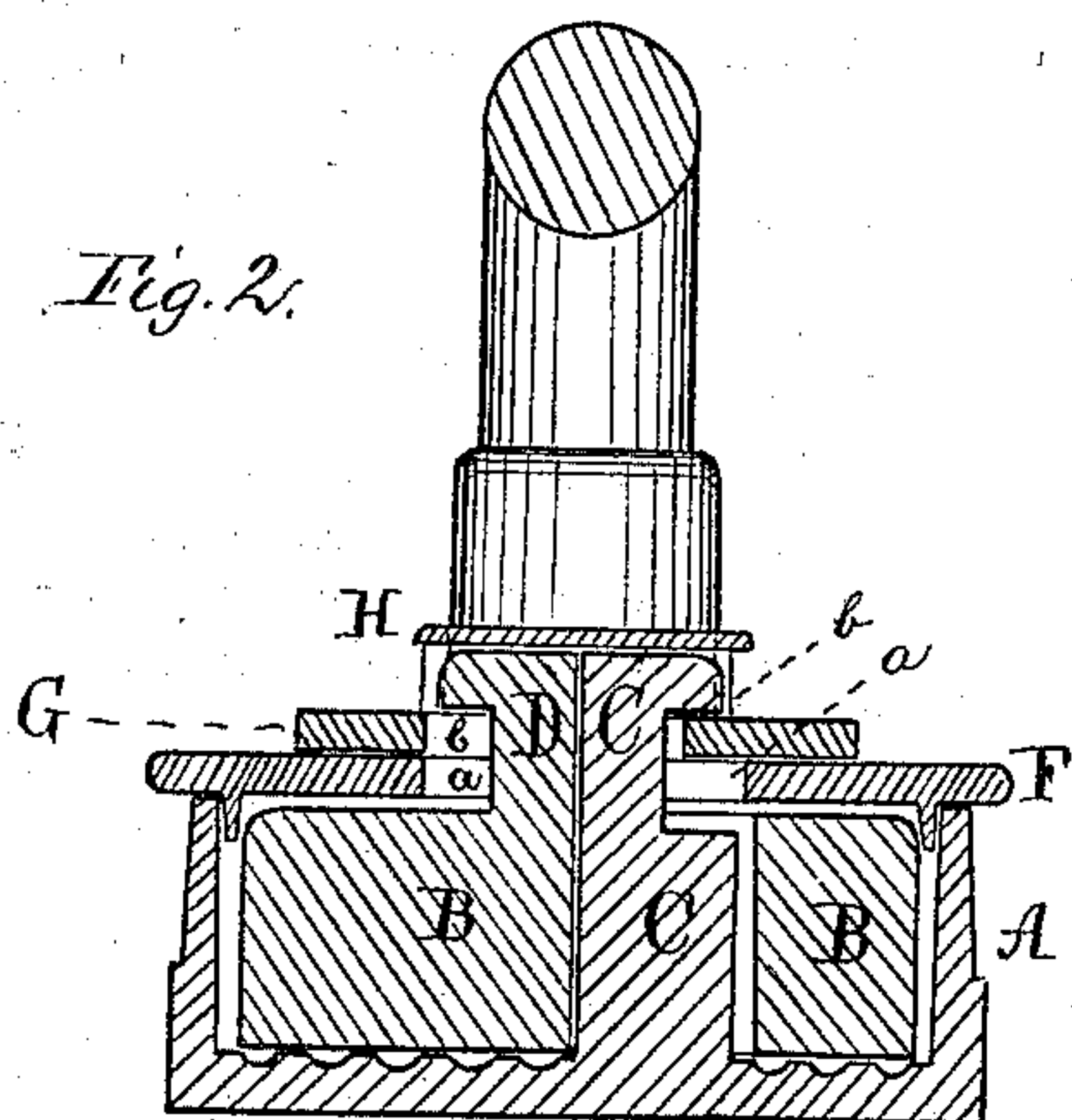


Fig. 3.

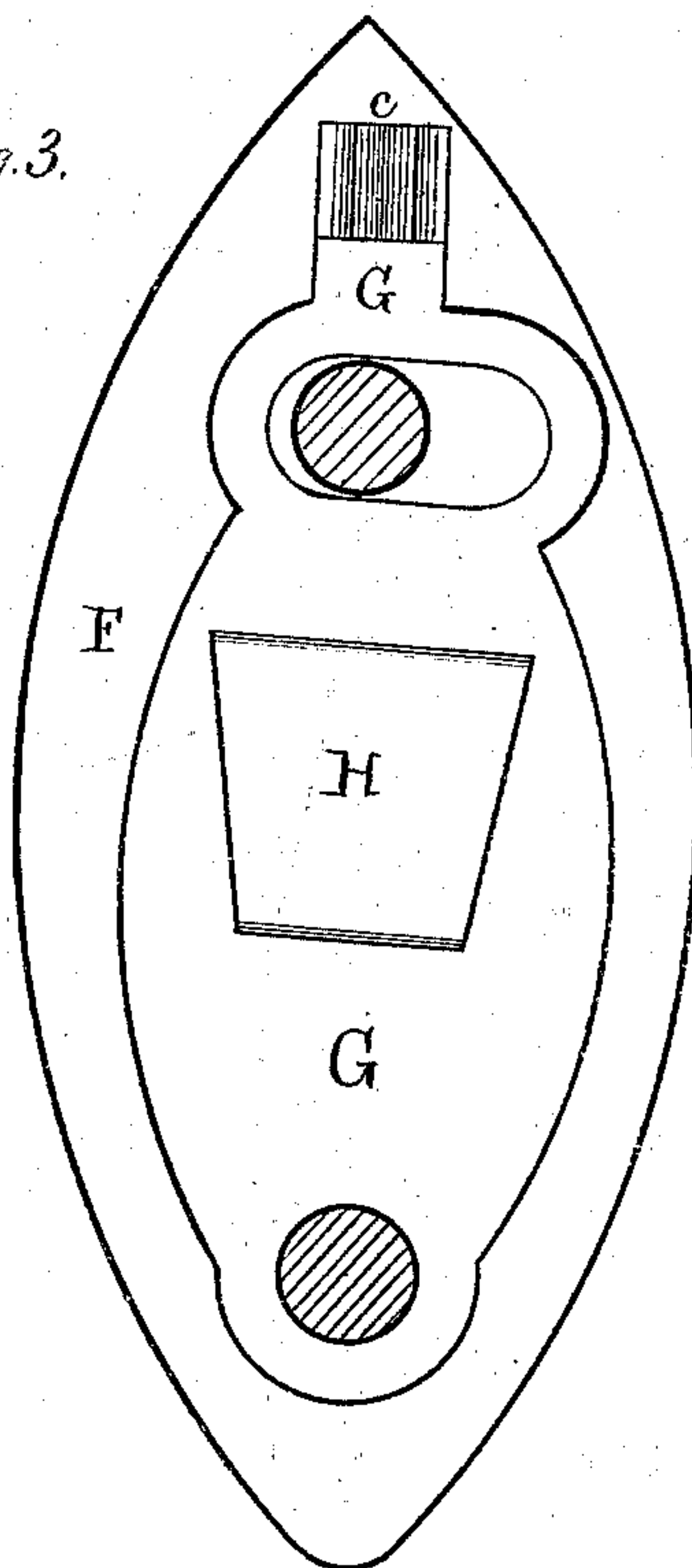
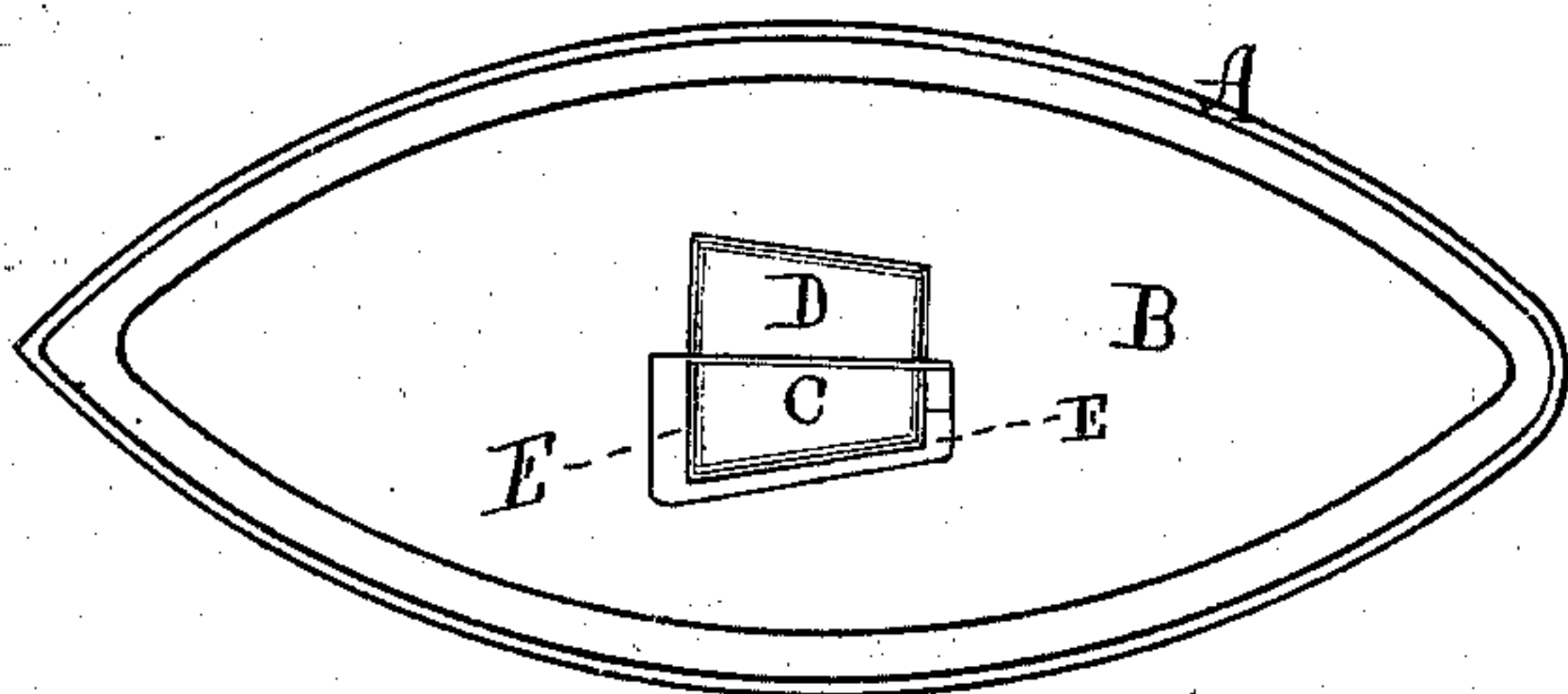


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE

JOSEPH T. FEWKES, OF PHILADELPHIA, PA., ASSIGNOR TO HIMSELF, JOSEPH L. WILKINS, AND W. CLARENCE CRANMER, OF SAME PLACE.

IMPROVEMENT IN SAD-IRONS.

Specification forming part of Letters Patent No. 135,791, dated February 11, 1873.

To all whom it may concern:

Be it known that I, JOSEPH T. FEWKES, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Sad-Irons; and I do hereby declare the following to be a clear and exact description of the nature thereof sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a side elevation of the device illustrating my invention. Fig. 2 is a central transverse vertical section. Fig. 3 is a top or plan view, the handle having been removed. Fig. 4 is a top view of the shell and core.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an improvement in the class of sad-irons wherein the heating-core is adapted to be carried by the handle independently of the shell. It consists of a post rising from the shell, and another post rising from the core, so that both posts meet at or about the center of the iron, and are there respectively engaged by a locking-plate. It also consists in a lever for operating the locking-plate. It also consists in a guard on the locking-plate for the upper ends of the posts.

Referring to the drawing, A represents the shell or bottom portion of the iron, and B the heating-core which is fitted thereunto. From the bottom of the shell, near the center thereof, there rises a post, C, which is somewhat of a hook shape, and from the top of the core there rises a similar post, D, the post C passing through an opening, E, in the core B, and the two posts coming together so as to form a T-shaped projection above the core, as seen in Figs. 2 and 4. F represents the top or covering plate which is fitted on the shell A, and to it is secured the handle G' of the iron, which may be made of any material, but preferably of wood. An opening is made in the covering-plate for the passage of the posts C D, and on the plate is mounted a longitudinal plate, G, having an opening, b, for the tops of the posts C D, and whose sides are adapted to catch under the heads or hooked ends of the posts, and thereby lock the handle and core, or the handle,

core, and shell. On the plate G, just above the opening b, there is located a guard, H, which covers the posts C D, but interferes in nowise with the free movements of the plate F.

It will be seen that the hand of the operator does not come in contact with either of the posts, whether in carrying the core, or the core and shell, and heat that may escape through the openings a b is directed through the open sides of the guard, so as not immediately to reach the fingers which grasp the handle.

Pivoted to the handle G', at what will be the front end thereof, is a lever, J, which extends to convenient reach of the thumb or forefinger of the operator, and engages with the forward end of the locking-plate G by a slotted, jointed, or other connection, c. A spring, K, may be applied to the axis of the lever J to relieve parts in operation therewith of strain and fracture due to hasty or harsh usage of said lever.

The locking-plate G has its axis at one end of the handle G', and is slotted near its free end, and the slot permits the introduction of the other end of the handle G', so that the plate will freely vibrate (see Fig. 3) and not interfere with the connecting parts.

The operation is as follows: When the iron is cooled, the plate G is vibrated so that it catches under the hooked top of the post D of the core B. This relieves the handle from engagement with the shell A, and permits the core to be lifted by the handle from the shell, the latter remaining on the ironing-board. On placing the core on the stove or other heating medium, it will be relieved from the handle by vibrating the plate G from the post D. A freshly-heated core is then taken up and locked with the plate G and applied to the shell, the post C passing through the opening in the core. Now move the plate G so that it engages with the post C, and the handle, core, and shell are so connected that they will move together as one, and may be operated after the manner of ordinary irons.

I lay no claim to the principle of carrying the core by the handle independently of the shell, or connecting the handle, core, and shell by the same lever or plate; but

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

1. The single post C rising from the shell A, in combination with the single post D rising from the core and arranged centrally with said shell and core in relation to the locking-plate, substantially as and for the purpose set forth.

2. The operating-lever J, in combination with the locking-plate G, and with the shell A, core B, and posts C D, substantially as and for the purpose set forth.

3. The guard H on the locking-plate G, in

combination with the posts C D of the shell and core, substantially as and for the purpose set forth.

The above signed by me this 14th day of January, 1873.

JOSEPH T. FEWKES.

Witnesses:

FRAS. MCBRIDE,
THOS. H. CLARKE.