

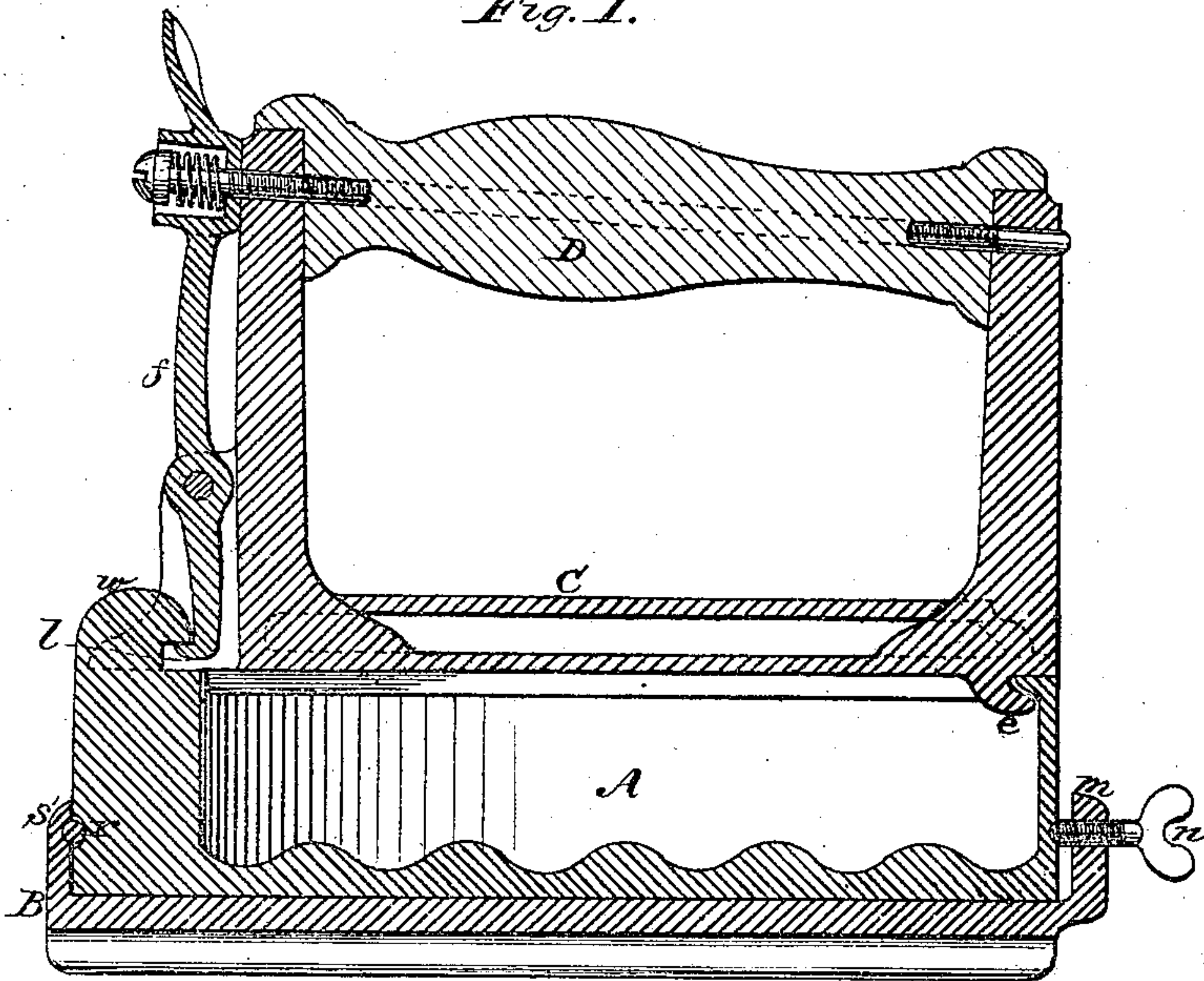
S. D. HUBBARD.

Improvement in Fluting-Irons.

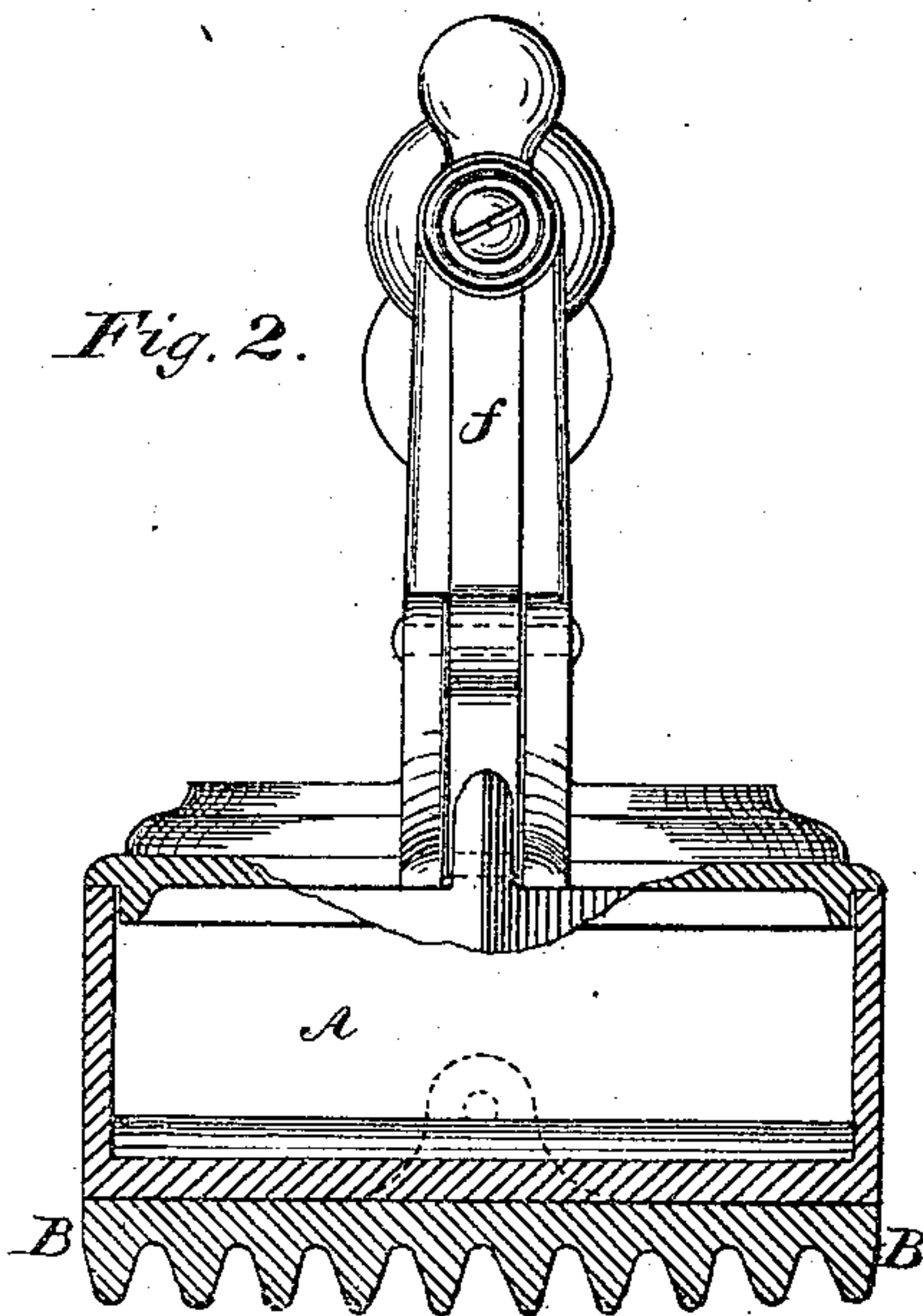
No. 133,104.

Patented Nov. 19, 1872.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*James Johnston*  
*Wm. W. S. Dyre,*

*Inventor:*

*Sherman D. Hubbard*  
*By Johnston & Grindley*  
*his attorneys*



# UNITED STATES PATENT OFFICE.

SHERMAN D. HUBBARD, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN FLUTING-IRONS.

Specification forming part of Letters Patent No. 133,104, dated November 19, 1872.

*To all whom it may concern:*

Be it known that I, SHERMAN D. HUBBARD, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a certain new and useful Improvement in Fluting-Iron; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of my invention consists in combining with a box smoothing-iron a detachable plate or box, provided with a corrugated ironing-surface for the purpose of ironing ruffles.

To enable others skilled in the art to make and use my invention, I will proceed to describe more fully its construction and operation.

In the accompanying drawing, which forms part of this specification, Figure 1 is a vertical and longitudinal section of my improvement in box smoothing-irons, provided with a detachable plate for ironing ruffles; and Fig. 2 is a front end view of the iron, representing a portion of it broken away for the purpose of showing in cross-section the box, plate, and part of the lid or top, at about line *y*, Fig. 1.

A represents the box of the smoothing-iron, and C its top or lid. This lid is provided with a wooden handle, D, and is secured to the box A by means of a dovetail, *e*, at its back end, and a spring thumb-latch, *f*, at its front end. By pressing forward the upper end of the thumb-latch its lower end will be thrown back, and by raising up the front end of the lid the back end can be detached, so as to remove the lid from the box A. The heater may then be placed in the box A and the lid replaced, as shown in Fig. 1.

The box smoothing-iron above described is the invention of James J. Johnston, for which he received a patent bearing date October 1, 1867, which he has improved by placing the thumb-latch at the front end of the lid, and providing the latter with a plate for protecting the hand from the action of the heat. As

he proposes making these additional improvements to his box smoothing-iron the subject of an application for Letters Patent, I will not further describe them in this specification.

My invention consists in providing the box smoothing-iron with the detachable plate B, (or a box constructed in every respect like box A, excepting the ironing-face,) the lower surface of which is corrugated, as clearly shown in Fig. 2. The front end of the plate is furnished with a projection, *s*, which incases a portion of the point of the box A. The back end is provided with a lug, *m*, and a thumb-screw, *n*. The front and back ends of the box A are each provided with a countersink. The countersink at the front end is for receiving the wire *r*, placed in the projection *s* of the plate, and the countersink in the back end is for receiving the point of the thumb-screw *n*.

In placing the plate upon the iron the point is placed in the projection *s*, with the back end of the iron slightly raised. It is then lowered, and the thumb-screw is turned so as to enter the countersink and secure the plate firmly to the box A, as clearly shown in Fig. 1.

The plate B is heated through the medium of a heater placed in the box A. The lower surface of the plate B is slightly convexed when viewed crosswise. This convexity is for the purpose of preventing the tearing and drawing of the fabric in the process of ruffling it. A board having grooves corresponding to the corrugations of the plate is provided, upon which is placed the goods to be ruffled by the ironing process.

Having thus described my improvement, what I claim as of my invention is—

The plate B, provided with a corrugated ironing-surface, in combination with the box smoothing-iron A and its heater, substantially as hereinbefore described, and for the purpose set forth.

SHERMAN D. HUBBARD.

Witnesses:

A. C. JOHNSTON,  
JAMES J. JOHNSTON.