C. JOHNSON.

FLUTING AND POLISHING IRON.

No. 191,684. Patented June 5, 1877.

Fig. 1

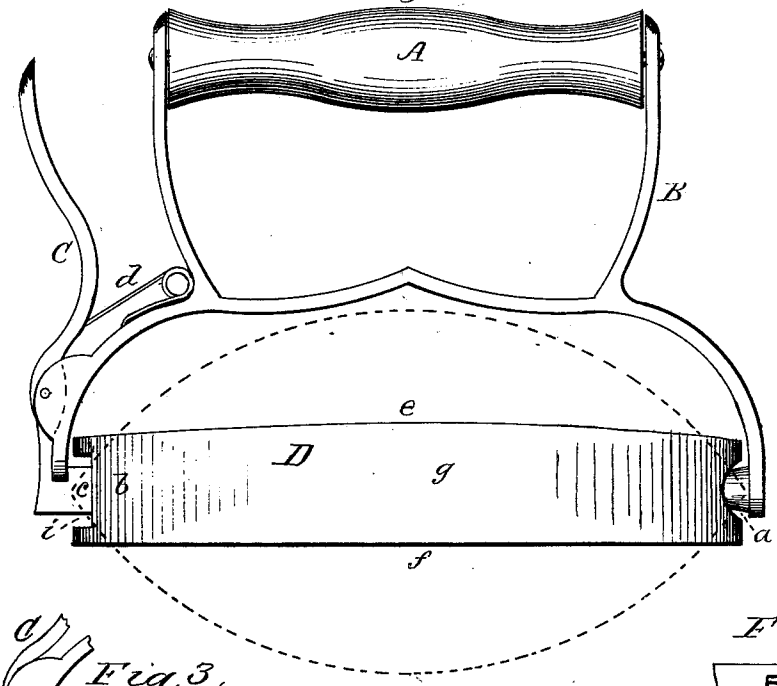


Fig. 3.

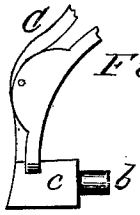


Fig. 4

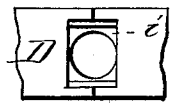
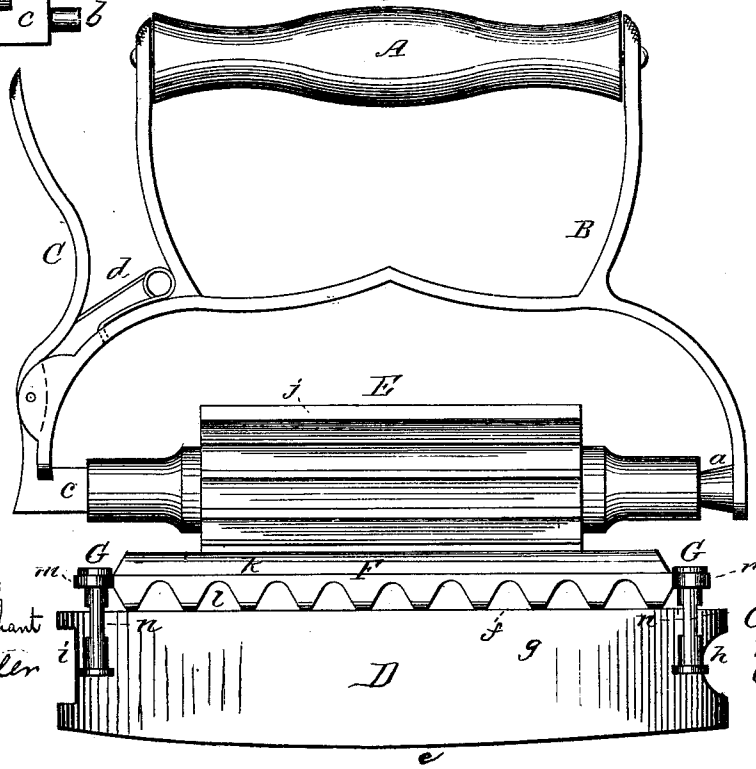


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES JOHNSON, OF GROTON, NEW YORK.

IMPROVEMENT IN FLUTING AND POLISHING IRONS.

Specification forming part of Letters Patent No. **191,684**, dated June 5, 1877; application filed April 7, 1877.

To all whom it may concern:

Be it known that I, CHARLES JOHNSON, of Groton, in the county of Tompkins and State of New York, have invented a new and valuable Improvement in Fluting and Polishing Irons; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of side elevation of my improved sad-iron and handle. Fig. 2 is a similar view of my invention complete. Fig. 3 is a detail view of the square shoulder and pivot, and Fig. 4 is a view showing the square opening.

This invention relates to those devices known as sad and fluting irons, in which the two articles are combined; and the object and purpose of the present invention is to furnish a sad-iron and fluting device combined, which will be simple in its construction and effective in its purpose; and consists in forming the handle so that it will be capable of being shifted or removed and connected to either of the fluting or polishing devices, as circumstances may require, and also in constructing or forming a sad or polishing iron with four faces, and, in connection with a fluted roller, of a bed having fluted grooves on both sides and in opposite directions, the construction and combination of the several parts being hereinafter more fully described, and subsequently pointed out in the claims.

In the accompanying drawings, A represents the handle secured to a frame, B, said frame having a stationary pivotal point, *a*, at the lower end of one of the arms of the frame, while at the other arm is pivoted a lever, C, having formed thereon a pivotal point, *b*, with a square shoulder, *c*, so that, when held within a square opening in the end of the device to which the handle is attached by the spring *d*, the device will be secured stationary, and prevented from any rocking motion when in operation, and when a fluting-roller is attached to the handle the points *a b* act as pivots, upon which the roller rotates. It will therefore be seen that, by constructing the handle with both the square shoulder *c* and pivotal point *b*, either a fluting-roller or a sad-iron may be attached.

The sad-iron D is formed with a convex polishing-surface, *e*, a flat surface, *f*, and two narrow convex polishing-surfaces, *g*, which form the sides of the iron when in position, as shown in Fig. 1, and has at one end a conical hole, *h*, and at the other end a hole having a square opening, *i*, for the reception of the square shoulder *c* upon the lever C, so that, when held therein, the iron will be prevented from rocking, as before described.

A roller, E, having corrugations or fluting-grooves *j* running parallel to its axis, when secured to the handle A, is designed to be used in connection with a bed, F. In place of the roller, it is evident that a flat or convex plate may be used, having upon its under face or surface corrugations or grooves, without departing from the principle of my invention.

This bed has formed upon one of its faces fluting-grooves *k*, running lengthwise, and upon its other side or face fluting-grooves *l*, running crosswise, or at right angles to the grooves *k*, and has upon each end split rings or eyes *m*, for the reception of double-headed pins G.

These pins are designed to hold the bed F upon the sad-iron D when used in connection therewith; but when connected to the handle A, the pins may be removed by turning them around, so as to bring the edge of the part *n* in line with the opening or split in the rings or eyes *m*, when they can be readily withdrawn.

As the operation and the purposes to which the several devices may be applied will be readily understood, further description is deemed unnecessary.

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

1. A removable handle for sad-irons or fluting-rollers, having pivoted lever C, formed with pivotal point *b* and square shoulder *c*, and the spring *d* and pivotal point *a*, substantially as and for the purpose specified.

2. The bed F, having upon both of its faces fluting-grooves *k l*, running at right angles to each other, in combination with a fluting-roller or its equivalent, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES JOHNSON.

Witnesses:
M. B. WILLIAMS,
CHAS. PERRIGO.