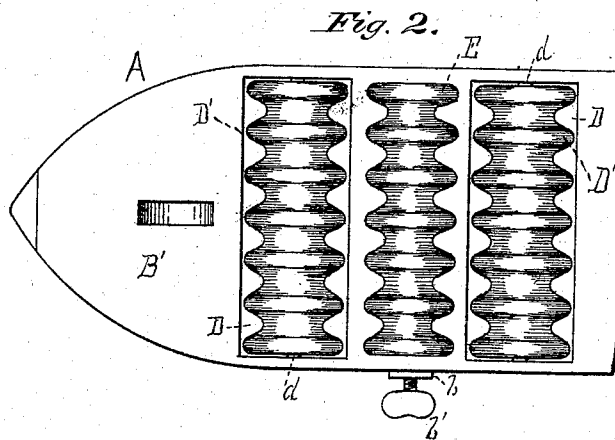
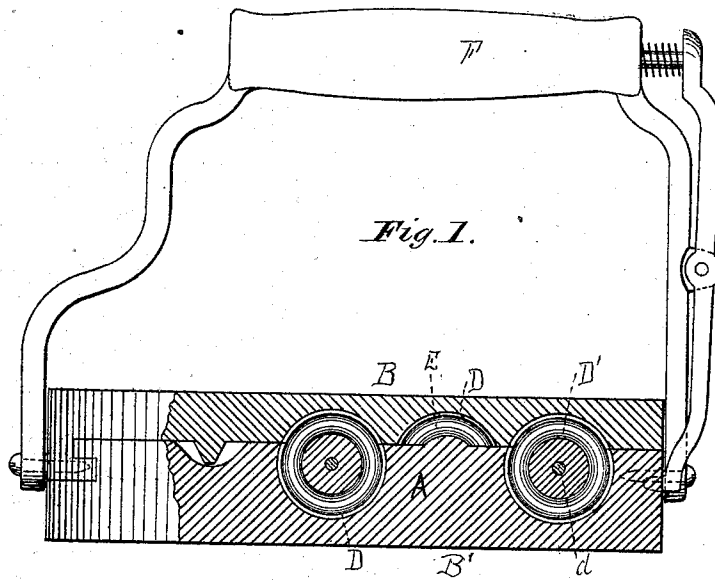


J. HEWITT.
Sad and Fluting Irons.

No. 137,445.

Patented April 1, 1873.



Witnesses:
Edwin James.
H. V. Gordon

Inventor:
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per J. E. P. Holmeads
Attorney.

UNITED STATES PATENT OFFICE.

JOHN HEWITT, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN SAD AND FLUTING IRONS.

Specification forming part of Letters Patent No. **137,445**, dated April 1, 1873; application filed January 23, 1873.

To all whom it may concern:

Be it known that I, JOHN HEWITT, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Sad-Iron Fluters and Crimpers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing and the letters of reference marked thereon making part of this specification, in which—

Figure 1 is a longitudinal sectional view. Fig. 2 is a bottom plan view of the upper plate.

The nature of my invention consists in casting or otherwise constructing the iron plate in two sections, one of which may be finished as a sad-iron and the other as a polishing or glossing iron. The inner faces of these plates are formed with grooves across their faces, so as to leave suitable receptacles or recesses for the fluting-rollers to have their bearings, said spaces or recesses being of such dimensions that when the plates are brought together and fastened, which may be done through any suitable attachment, so as to form a sad or polishing iron, the fluting-rollers are entirely concealed.

When the fluting device is to be used, the plates are detached and, the plates being entirely independent, the handle-plate, or the one carrying the rollers, is free to be used as a crimper, in connection with any suitable corrugated base-plate, for fluting ruffles or any other desired material.

The construction and operation of my invention are as follows: A is the iron plate, one face, B, of which may be finished as a sad-iron, and the other face, B', as a polishing-iron. This plate is cast or otherwise manufactured out of any suitable material, and in two sections, and which are entirely independent of each other. When the plate is to be used as a sad or polishing iron, the sections are brought together and fastened, through a latch-plate, *b*, and a thumb-screw, *b'*, or any other convenient fastening. These plates B B' are cast with circular or segmental grooves D D in their inner faces, and at such relative positions therein that when the plates B B' are brought together, as shown in Fig. 1, the outer points of their segments shall meet or be coincident, so as to leave between the plates

inclosed horizontal recesses, and of a diameter a little greater than that of the rollers which they are designed to receive. In the plate B' are secured, by suitable bearings *d d*, and so as to allow of their free revolution, the crimping-rollers D' D'. On the face of the plate, and between the recesses D D of the plate B', may be cast or otherwise attached a stationary segmental corrugated plate, E, as shown in Fig. 2, and which is useful in imparting an additional gloss to the material as the rollers flute the same. These plates are secured to any suitable handle, F, and when one is finished as a sad and the other as a polishing iron should, of course, be so secured as to be reversible at pleasure; or, when one face alone is finished and the other is only designed for a heating-surface, it is also desirable that the plate should be so attached as to be reversible; but when only used as a sad-iron and fluting device, the handle is cast with or otherwise permanently attached to the plate that carries the rollers.

The great advantage of this improved iron, in addition to the great convenience it affords by being a sad-iron and a fluter combined, is, that it secures, as it were, within a close case or box, the rollers when they are not required to be used, and thus securely protects them from injury through careless handling of the iron. After the work of the sad-iron is finished, you have simply to undo the fastening that locks the plates together and remove the plate B, when the plate B', and its crimping-rollers and the handle attached, is ready for use in connection with any suitable corrugated base-board.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The iron plate A, consisting of two section-plates, B and B', having grooves D D and rollers D' D', when the same are so combined and arranged as to operate substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN HEWITT.

Witnesses:

EDWIN JAMES,
JOS. T. K. PLANT.