

A. S. MANN.

Improvement in Combined Fluting and Sad-Irons.

No. 132,590.

Patented Oct. 29, 1872.

Fig. 1.

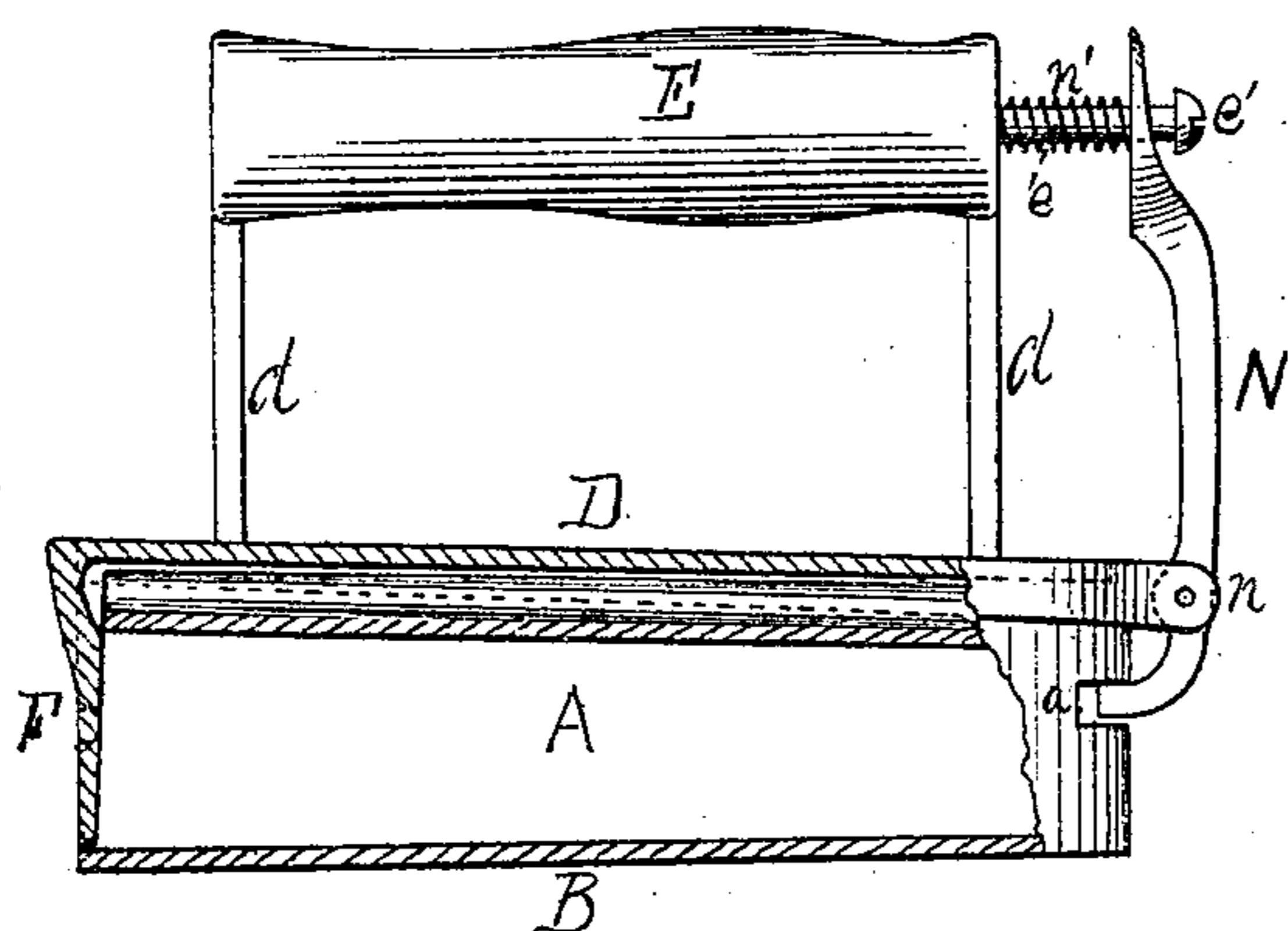


Fig. 2.

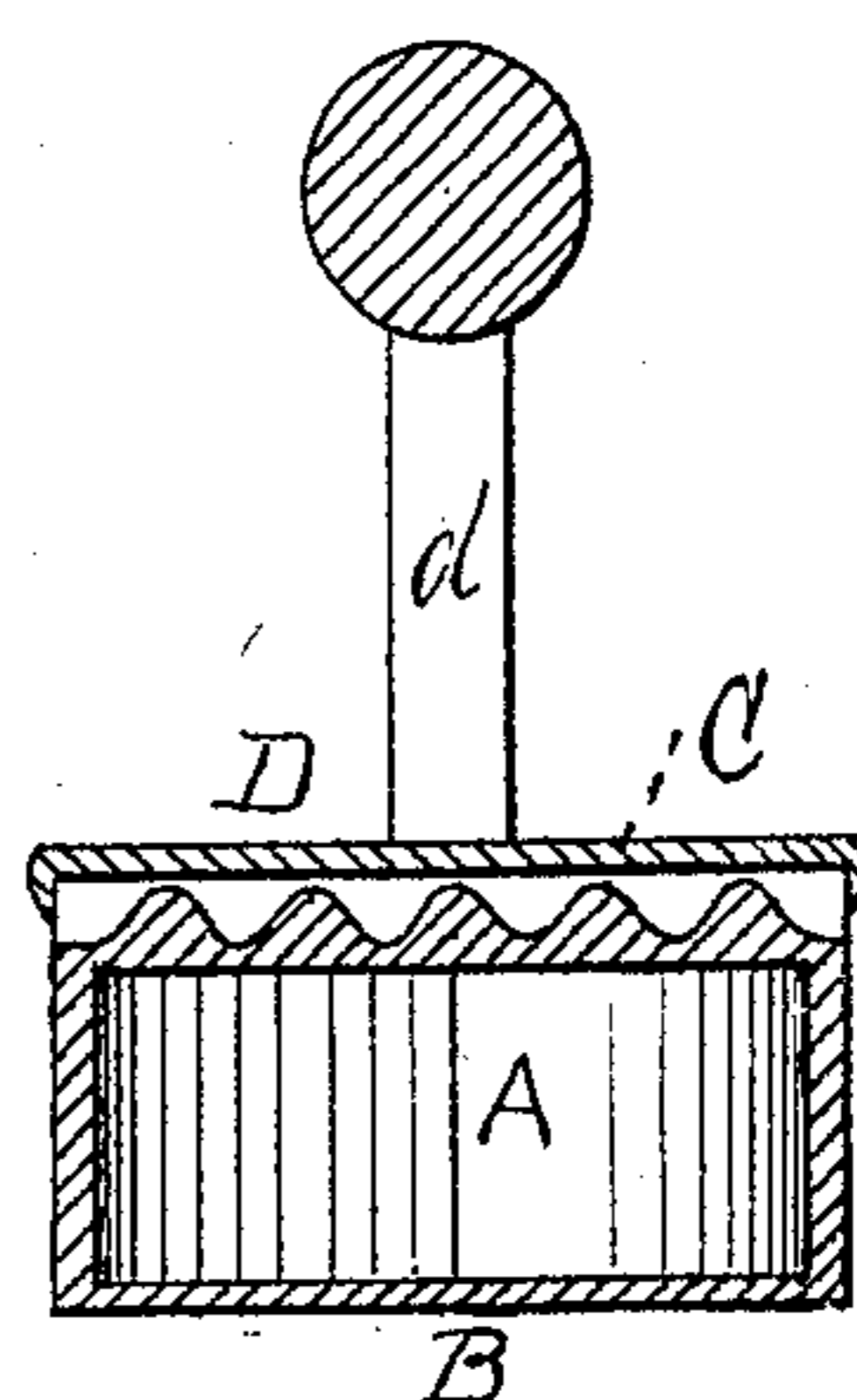


Fig. 3.

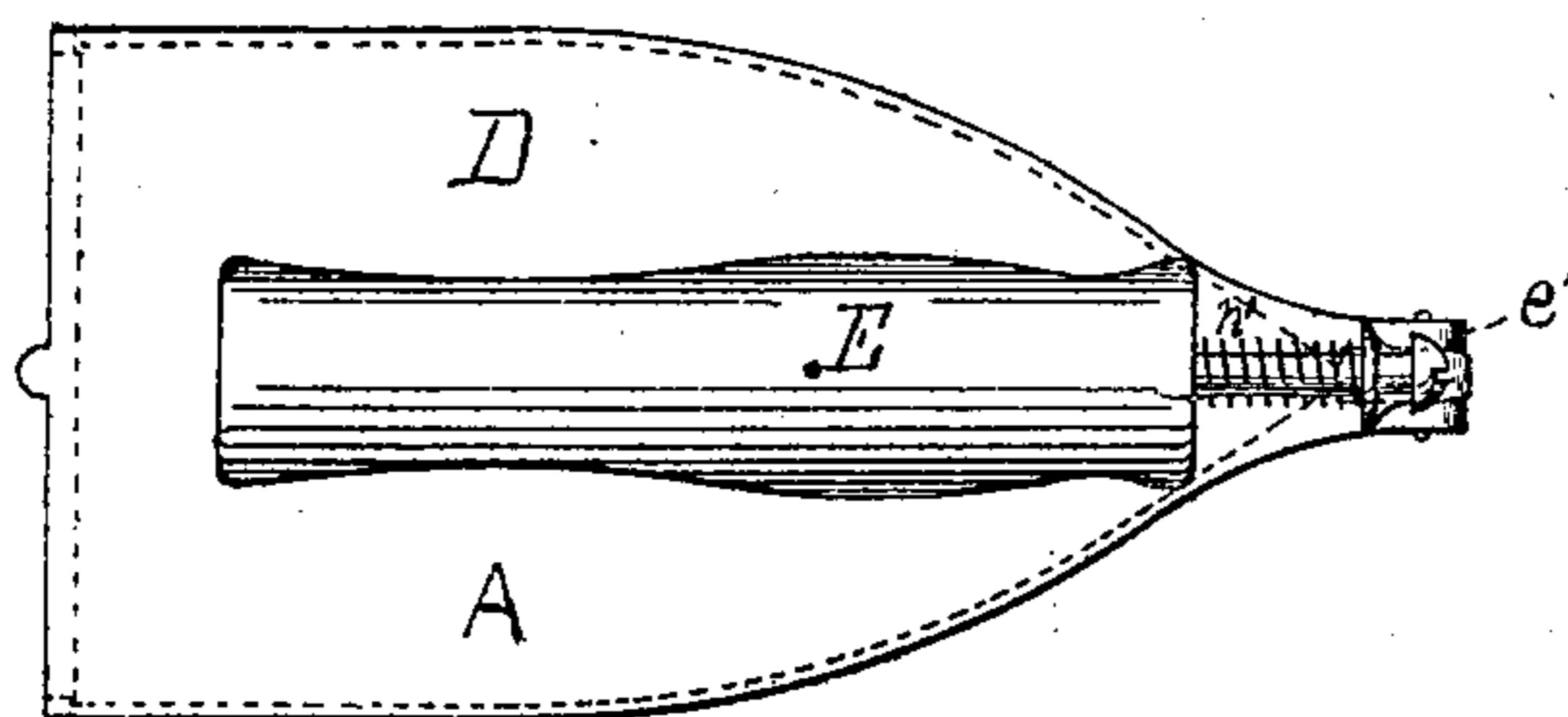
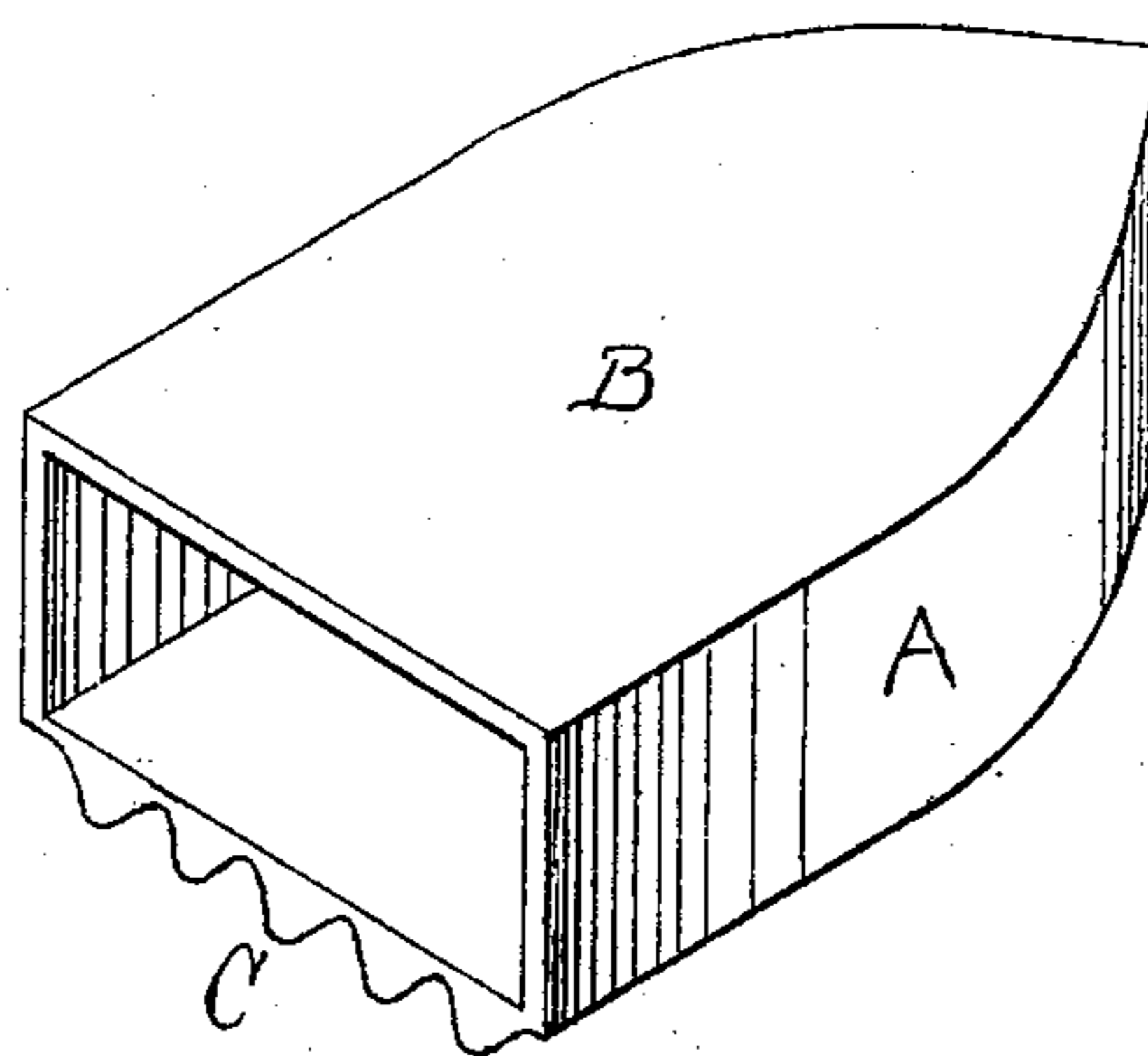


Fig. 4.



Witnesses:

Edwin James  
H. V. Gordon

Inventor

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per J. E. P. Holmead  
Attorney

# UNITED STATES PATENT OFFICE.

AUSTIN S. MANN, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF TWO-THIRDS HIS RIGHT TO ROBERT A. WILSON, CHAS. J. BALDWIN, AND JOHN HEWIT.

## IMPROVEMENT IN COMBINED FLUTING AND SAD IRONS.

Specification forming part of Letters Patent No. 132,590, dated October 29, 1872.

*To all whom it may concern:*

Be it known that I, AUSTIN S. MANN, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Combined Sad-Iron and Crimping Device, 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 side view, part of the lower portion of the sad-iron being cut away; Fig. 2 is a vertical sectional view through the center of the sad-iron; Fig. 3 is a top view; and Fig. 4 is a top view, in perspective, of the lower plate.

My present improvement in sad-irons relates to that class of irons known to the trade as the box-iron, and in which the sad-iron plate is the lower face of a shell and is used in connection with a series of heaters. The shell is open at its rear for the introduction of the warm heater, which is withdrawn when it cools to be replaced by a fresh heater. The object of my invention is to so construct the shell, without additional cost or weight of metal, as to admit of its double use both as a smoothing-iron and fluting device. The nature of my invention consists in casting or otherwise manufacturing this shell, so that while one face shall be smooth and polished, as in the ordinary smoothing-iron, the other shall be corrugated, so as to permit of its use in connection with a similar corrugated plate of any character and form as a fluting device. My invention also consists—and this it is which permits the shell to be reversed at pleasure—in connecting the handle-plate to the shell by means of a spring latch-bar. The handle-plate has a vertical door-plate projecting therefrom which entirely closes the rear of the shell when the handle-plate is attached.

The construction and operation of my invention are as follows:

A is the box or shell, which may be made of any suitable metal, and is of the ordinary form, cast or otherwise manufactured by any suitable process. The face B of this shell is flat and polished, as in the ordinary smoothing-iron. The face C is corrugated, as clearly

shown in Figs. 2 and 4. This shell A is open at its rear end, as shown in Fig. 4, for the introduction and withdrawal of the heaters, the heaters being the ordinary cast-iron blocks. D is the handle-plate, and has projecting from its upper face two shank-arms, *d d*, to which the handle E is attached. The rod *e*, which attaches these shank-arms to the handle E, projects in front beyond the shank-arm *d* an inch or more, and terminates in a button-head, *e'*, as clearly shown in Figs. 1 and 3. From the rear of the handle-plate D projects a vertical door-plate, F, which has on each side a slight projecting shoulder, which enters recesses at the mouth of the shell A, and which completely closes the shell when the handle-plate is in position. At the forward end of the handle-plate at *n* is pivoted the latch-bar N. This latch-bar is slotted at its upper head, and has its bearing and works on the rod *e*, its position being controlled through the action of a coiled or other suitable spring, *n'*, as will be seen by reference to Figs. 1 and 3. The tension of this spring *n'* is constantly exerted to force and retain the hooked end of the latch-bar N in the recess *a* at the forward end of the box or shell A. Thus in connection with the door-plate F the shell A is secured and retained in a fixed and steady position under all circumstances, whether used as a smoothing iron or when reversed to be used as a fluting device.

From the foregoing description the operation of my machine will be readily understood. One of the heaters, which, as I have said, are of the ordinary construction, is thoroughly heated and introduced into the shell A, and the handle-plate D is attached, its gate F closing the mouth of the shell A, and the latch-bar N firmly locking into the recess *a* at the front of the shell, as clearly illustrated in Fig. 1. The device is now in condition to be used as a smoothing-iron. When a fresh heater is to be introduced, simply by forcing back the head of the latch-bar N, so as to overcome the tension of the spring *n'*, the handle-plate F is instantly detached, leaving the mouth of the shell A perfectly unobstructed for the withdrawal of the heater which has become cool and the insertion of another. By the same

operation, when the iron is required to be used as a fluting-device, the shell A is detached and reversed, so as to throw its corrugated face down, as shown in Fig. 4.

Thus it will be seen, without additional cost, simply by corrugating the face C of the shell A, I secure with a single shell all the advantages of a smoothing-iron with a fluting device attached. When the shell A has been reversed to be used as a fluting device a corrugated wooden base-plate may be used, it being my intention to embrace said plate in another application.

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

1. The reversible shell A having a smooth polished face, B, and a corrugated face, C, so

as to permit of its use both as a smoothing-iron and fluting device, when the same is so constructed and arranged as to operate substantially as described.

2. The handle-plate D having a door-plate, F, at its rear, latch-bar N, rod e, and spring n', when the whole is so constructed, 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.

A. S. MANN.

Witnesses:

EDWIN JAMES,  
JOS. T. K. PLANT.