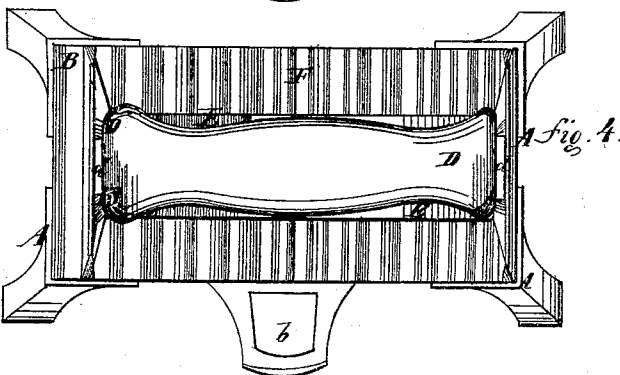
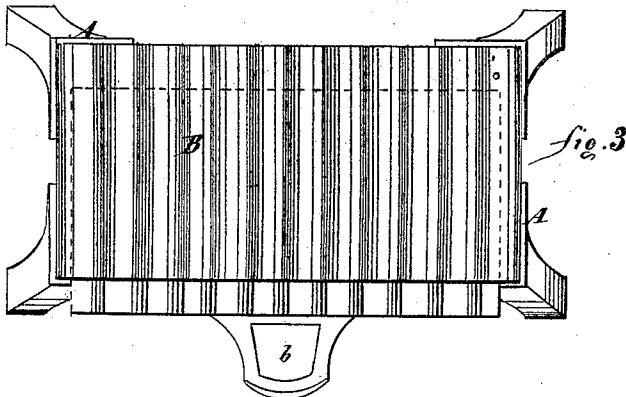
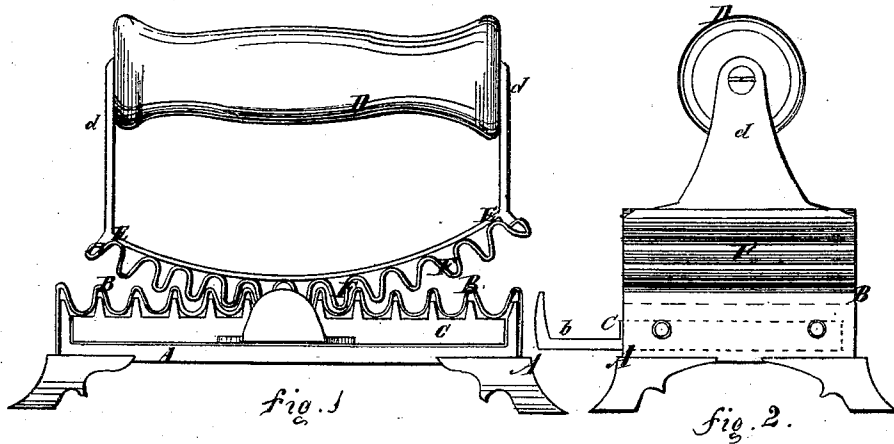


F. B. PERKINS.
Fluting-Apparatus.

No. 128,168.

Patented June 18, 1872.



Witnesses:

Henry G. Mearns
R. B. Bacon

Inventor
Francis B. Perkins.
By Coburn & Munroe
His Attys.

UNITED STATES PATENT OFFICE.

FRANCIS B. PERKINS, OF ELGIN, ILLINOIS.

IMPROVEMENT IN FLUTING APPARATUS.

Specification forming part of Letters Patent No. 128,168, dated June 18, 1872.

SPECIFICATION.

To whom it may concern:

Be it known that I, FRANCIS B. PERKINS, of Elgin, in the county of Kane and State of Illinois, have invented certain Improvements in Fluting Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which, together with the letters and figures marked thereon, forms part of this specification, and in which—

Figure 1 represents a side view of the newly-invented apparatus. Fig. 2 is an end elevation thereof. Fig. 3 is a top or plan view of the corrugated bed-plate, and Fig. 4 is a top or plan view of Fig. 1.

Like letters of reference employed in the various figures designate corresponding parts.

Nature of the Invention.

This invention relates to that class of fluting-machines in which a flat corrugated bed-plate is used in connection with a rolling segment or other corrugated presser; and the invention consists in making the said corrugated bed-plate of sheet metal, and employing in connection therewith a removable solid metal heater corrugated to correspond to said sheet-metal surface and placed beneath it. The object of so corrugating the heater is to offer a better support to all parts of the sheet-metal surface, and to afford a means of evenly heating, by contact, all parts of said corrugated sheet-metal surface, which could not otherwise be accomplished.

To enable those skilled in the art to make and use the invention, I will proceed to describe the same with particularity, making use in so doing of the aforesaid drawing by letters of reference thereto.

General Description.

A represents the frame-work of the bed-plate, and B is the corrugated sheet-metal surface affixed thereto, and extending from one end to the other thereof. C is the solid me-

tallic heater with corrugated face, arranged and fitted to slide under the corrugated sheet B, and to rest upon the frame A. This heater is furnished with a lug or ear, *b*, arranged to receive an ordinary stove-hole cover-lifter for convenience of handling said heater when hot.

This heater in operating the apparatus is removed and heated and again inserted. The constant heating and reheating act to gradually and permanently enlarge the heater, and it would soon become too large for the apparatus if it were not that the sheet-metal B constantly springs to accommodate itself to this enlargement. The heater, besides furnishing heat, acts as a support to the sheet metal B during the process of crimping.

D is the handle of the rolling segment, attached to the uprights *d d*, which spring from the curved bar E. F is the corrugated sheet-metal surface, made similarly to the surface B, and affixed to the curved bar so as to form a segment, supported at the back by said curved bar and secured to the ends thereof, at the junction of the uprights, the place of fixture being to accommodate the width of the corrugated sheet.

The metal of the corrugated sheets B F should be such as will not crock or soil the goods, and sufficiently ductile to be readily corrugated. I find that sheet-brass answers these purposes best, and I therefore employ it.

Claim.

Having thus fully described the nature, object, construction, and operation of my invention, that which I deem new, and desire to secure by Letters Patent, is—

The combination of the frame A, corrugated sheet-metal fluting-surface B, and removable corrugated heater C, substantially as specified.

FRANCIS B. PERKINS.

Witnesses:

I. P. DANIELS,
C. M. DANIEL.