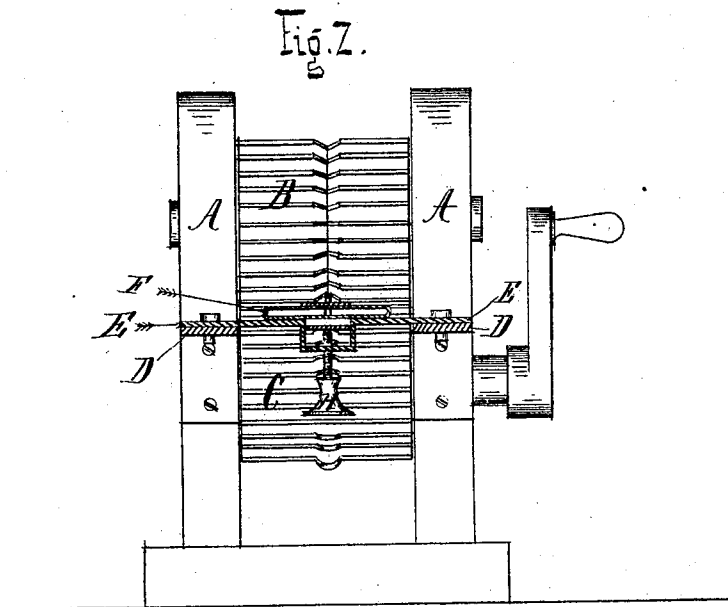
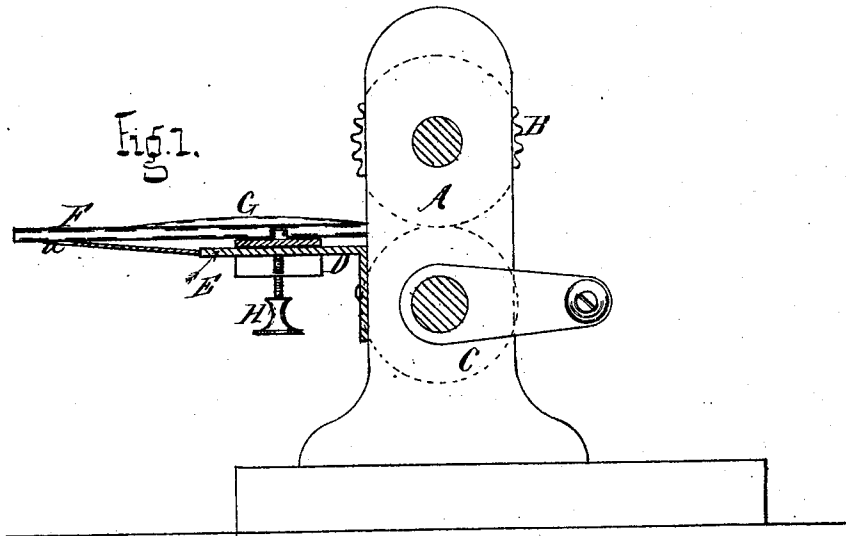


R. WERNER.

Crimping or Fluting Machines.

No. 140,326.

Patented June 24, 1873.



Witnesses:
Richard Senior
Franklin Barrett

Inventor:
Robert Werner
For Henry Senior
Attorney

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Fig. 3.

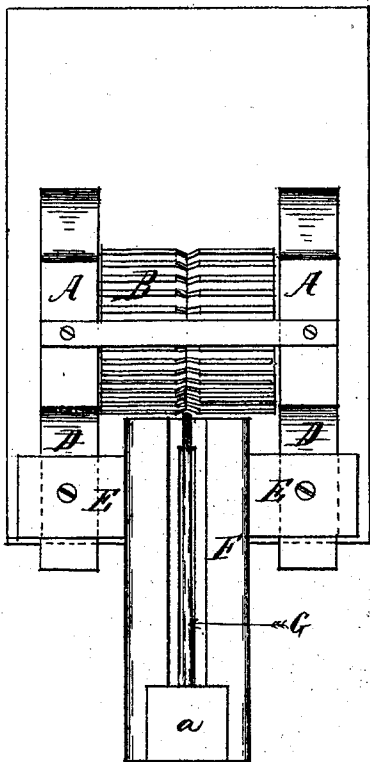


Fig. 4.

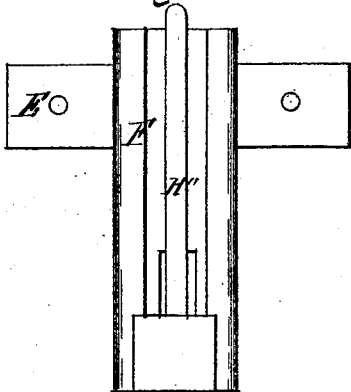
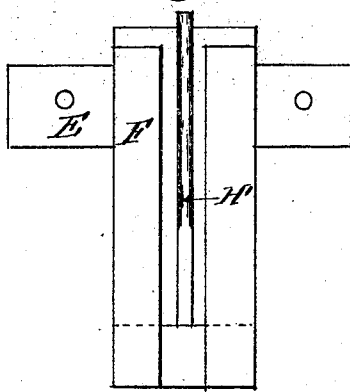


Fig. 5.



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UNITED STATES PATENT OFFICE.

ROBERT WERNER, OF HOBOKEN, NEW JERSEY.

IMPROVEMENT IN CRIMPING AND FLUTING MACHINES.

Specification forming part of Letters Patent No. **140,326**, dated June 24, 1873; application filed April 17, 1873.

To all whom it may concern:

Be it known that I, ROBERT WERNER, of Hoboken, county of Hudson and State of New Jersey, have invented certain Improvements in Attachments to Embossing or Crimping Machines, of which the following is a specification:

The object of my invention is to provide for a movable tongue, placed in front of an embossing or crimping machine, for the purpose of gathering together and holding the fabrics or material against the groove or grooves in the rollers, such materials consisting of any flexible textures, such as woolen, silk, muslin, or other textile fabrics, as well as leather, felt, parchment, paper, or other such materials, these materials being allowed to pass between rollers for the purpose of embossing thereupon figures, in regular or irregular forms, such as ornaments, flowers, arabesques, ornamental or mathematical figures, &c., such as the engravings and impressions of the rollers will permit or cause to be embossed thereon. My invention consists in fastening one end of a movable tongue to an attachment placed in front of an embossing, fluting, or crimping machine, said end being flexible while the other end is stiff, and extending toward the rollers, and can, at will, be depressed or elevated by aid of a set or thumb screw placed in the attachment below the tongue, such tongues to be formed in accordance with the material desired to be operated upon, either round, flat, pointed, of a saddle-form, or any other form.

In order to more fully describe my inven-

tion, I refer to the accompanying drawings forming a part of this specification.

Figure I, Sheet 1, is a side view of an embossing and crimping-machine embodying my invention. Fig. II, Sheet 1, is a front view of the same. Fig. III, Sheet 2, is a plan view of the same. Figs. IV and V, Sheet 2, are detached plan views of the attachment, with different forms of movable tongues.

A is the frame of the machine. B and C are the fluting-rollers, the roller B being made concave in the center and the roller C convex in the center. D D are supports for the cross-board E, to which is attached a frame, F, in the center and end *a* of which is fastened the movable tongue G. H is a set or thumb screw placed underneath the tongue in the cross-board E, serving to raise or lower the tongue, as may be required. H' is a round tongue, and H'' is a flat tongue, (see Figs. IV and V,) illustrating some of the different forms of tongues used for the different kinds of embossing or crimping. It is evident that any required number of tongues may be placed in the same attachment to conform with the rollers.

Having thus fully described my invention, I desire to claim—

In combination with the rollers B and C, frame F, and an adjusting device, H, the movable tongue G, when arranged to operate substantially as and for the purposes described.

ROBERT WERNER.

Witnesses:

ANTON C. CRONDEL,
RICHARD GERNER.