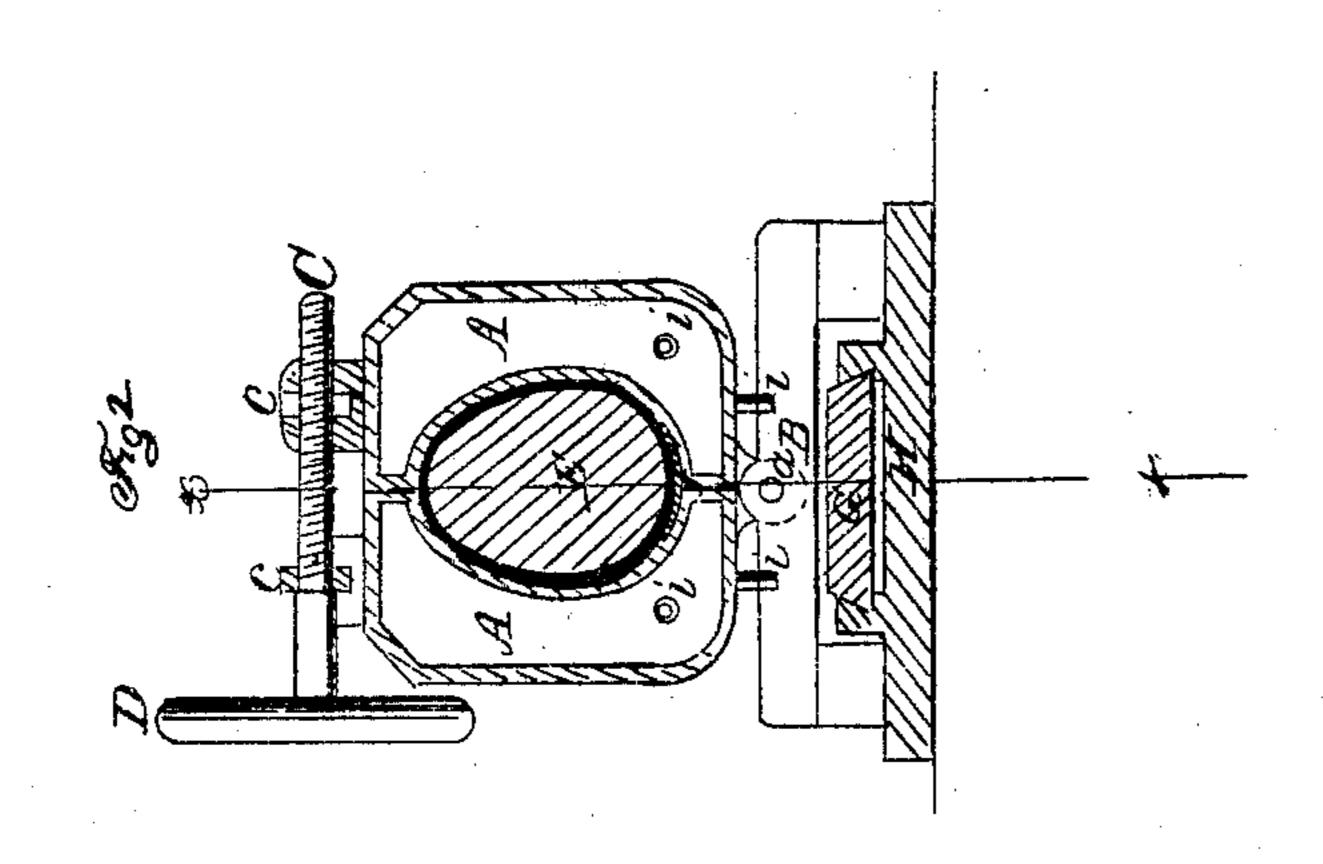
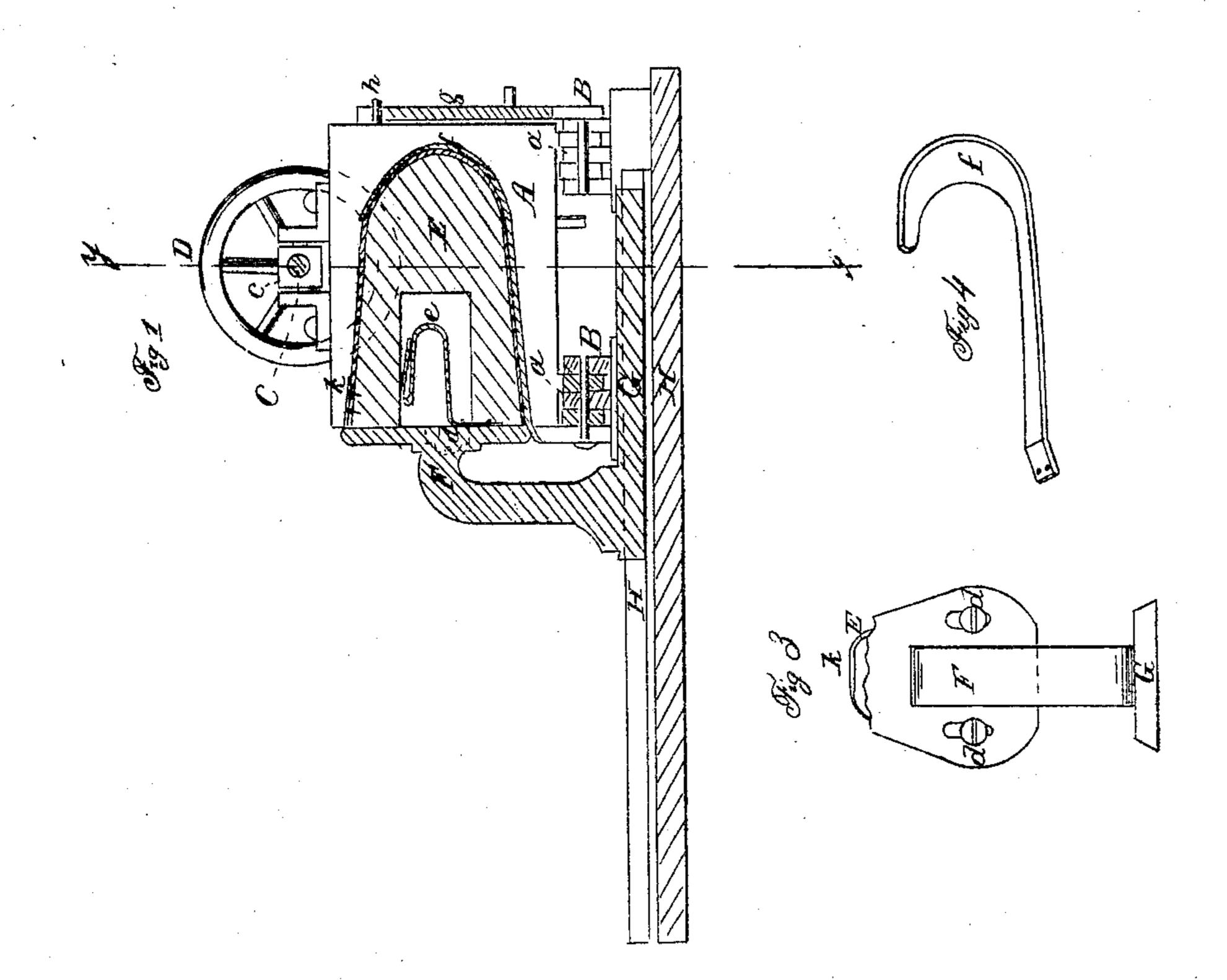
G.M. Richardson, Pressing.

10.58555.

Patented Oct. 2.1866.





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UNITED STATES PATENT OFFICE.

GEORGE M. RICHARDSON, OF BARRE, ASSIGNOR TO HIMSELF AND N. L. JOHNSON, OF DANA, MASSACHUSETTS.

IMPROVEMENT IN MACHINES FOR PRESSING BONNETS.

Specification forming part of Letters Patent No. 58,555, dated October 2, 1866.

To all whom it may concern:

Be it known that I, George M. Richardson, of Barre, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in a Machine for Pressing Bonnets; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a longitudinal vertical section taken in the line xx, Fig. 2. Fig. 2 is a transverse vertical section in the line yy, Fig. 1. Fig. 3 is an end view of the bonnet-block. Fig. 4 is a detached view of an internal arrangement.

Similar letters of reference indicate corre-

sponding parts.

The object of this invention is to facilitate the operation of pressing bonnets and hoods; and it consists in two hollow iron dies or molds, which are heated by steam, and by means of a screw are clamped around a block-form on which the bonnet to be pressed is placed.

The arrangement of the machine enables an operator to exert his strength to great advantage and perform the work very rapidly. He stands in a position to the work by which he handles the bonnets to put them off and on the form-block, and presses them by means of the screw without losing time in moving from one place to another, as required by machines in common use, and thus many more bonnets can be pressed in a day by one hand with one machine.

A A are two hollow cast-iron cases or dies of proper size and shape, pivoted at a a on the lower side to a foundation-frame, B B, so that they can be closed and opened vertically and longitudinally by means of a transverse screw, C, which works in rock-nuts c c on the upper side of the dies A A, and is operated by a hand-wheel, D.

The inner sides of the dies A A are hollowed out to form a cavity of suitable shape for receiving the bonnet form-block E, and fitting it closely, so that when the dies clamp upon the bonnet on the block their upper and front

edges shall come together.

The bonnet-block E is attached to the face of an upright, F, by two screws, dd, Fig. 3, which work in slots to allow a little rocking vertical movement to the block E for self-adjustment with dies A A. For this purpose, also, a cavity is made in the rear end of the block E, in which a flat bent spring, e, is fitted to bear against the upper side and steady it, and is fastened to the upright F. The upright F stands upon a slide, G, which is moved to and fro by hand upon the slide-rest H.

Within the dies A A a thin metal strip, f, (shown detached in Fig. 4,) is fitted to cover the division between the dies A A at the bottom and front end close around the block E

when the dies are closed.

On the front end of the dies A A an upright piece, g, is fastened at the lower end to the foundation-frame B, and at the upper end catches against a projecting pin, h, on one of the dies, to prevent it from opening too far and straining on the screw C by the weight of the hand-wheel D.

Each of the dies A A is furnished with an injection steam-pipe, i, and an ejection-pipe, i', for heating them independently of each other.

On the top of the block E is placed a plate, k, with beveled or inclined faces centered on the block longitudinally, for the purpose of guiding it centrally and evenly between the dies A A when they are clamped upon it for pressing the bonnet by the screw C.

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

Patent, is-

1. Employing the screw C, in combination with the dies A A and the bonnet-block E, constructed and operated substantially as and for the purposes herein described.

2. The metal strip f within the dies A A, covering the division between them, as herein

described.

3. The spring e, in combination with the block E, as herein described.

GEORGE M. RICHARDSON.

Witnesses:

John F. Brooks, Henry J. Shattuck.