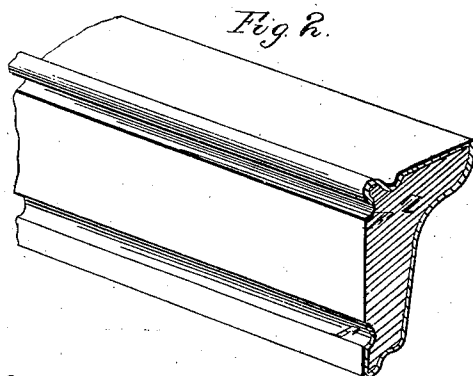
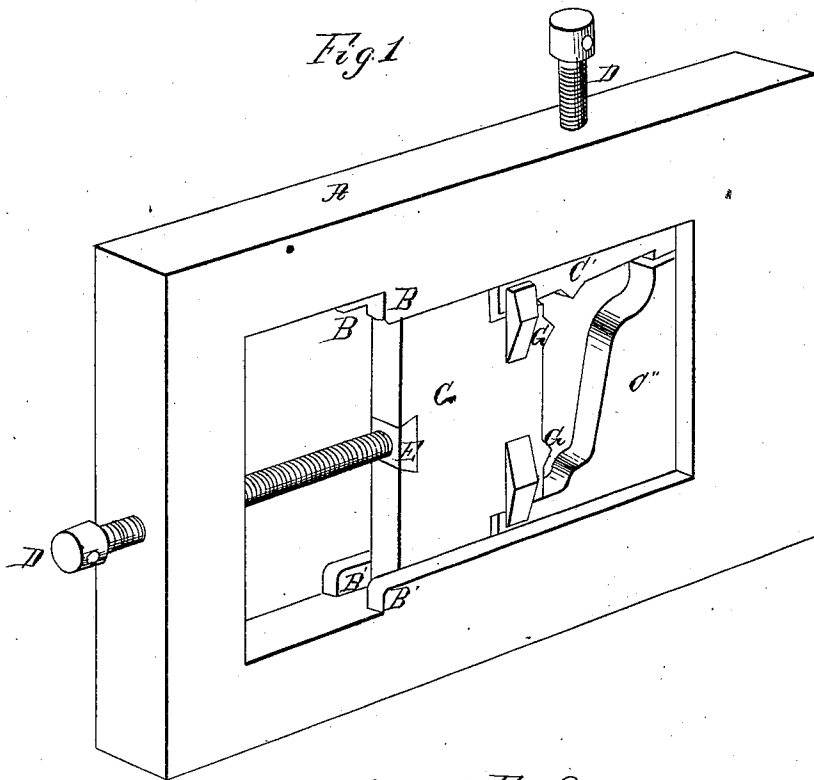


R. Howdon,

Making Sheet-Metal Moldings.

N^o 70,847.

Patented Nov. 12, 1867.



Witnesses.
Samuel Knight
James H. Layman

Inventor.
Robert Howdon
By Knight, Bros
Atty's

2 Sheets - Sheet 2.

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Making Sheet-Metal Moldings.

N^o 70,847

Patented Nov. 12, 1867.

Fig 3

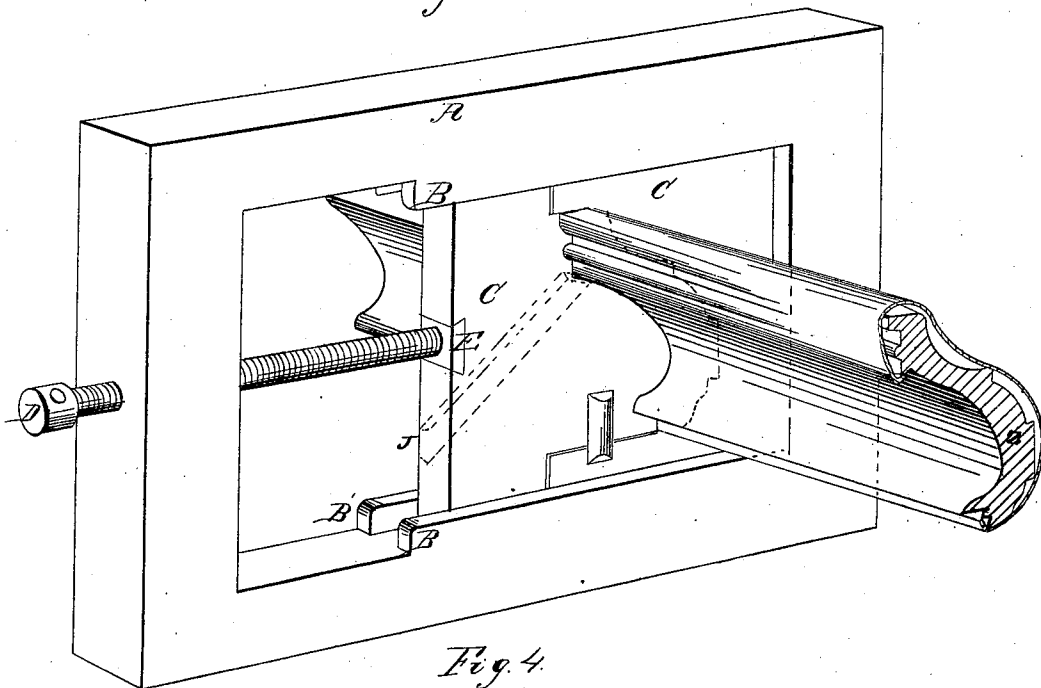
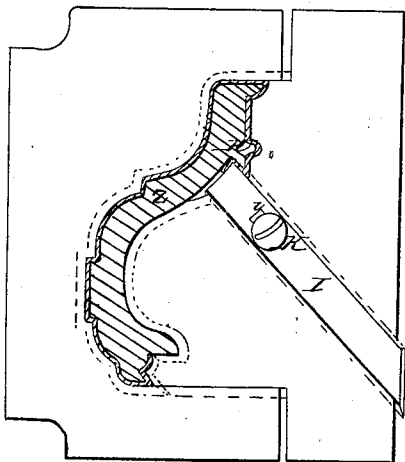


Fig 4



Witnesses
Hullward
J H Layman

Inventor
Robert Howdon
Carpenter & Co
Ally

United States Patent Office.

ROBERT HOWDON, OF CINCINNATI, OHIO, ASSIGNOR TO CRANE, BREED
& CO., OF SAME PLACE.

Letters Patent No. 70,847, dated November 12, 1867.

IMPROVED MOULDING-FACING MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Be it known that I, ROBERT HOWDON, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Moulding-Facing Machines; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

This invention consists in an arrangement within a suitable frame of a moulding-facing die, in several adjustable parts or jaws, through which a suitably prepared strip, moulding, or mandrel, loosely enclosed in sheet metal, being drawn, becomes closely encased in said metal, while the metallic casing itself becomes sharply impressed with the form of said dies.

Figure 1 is a perspective view of one form of my facing apparatus.

Figure 2 represents a strip of encased moulding.

Figure 3 is a perspective view of another form of my facing apparatus.

Figure 4 is a rear elevation of the dies, with a piece of work in position.

A is a rectangular metallic frame, having inwardly-projecting cleats B, which confine the dies C C' C''. Tapped within said frame are set-screws D, one or more in number, whose dove-tailed heads E occupy corresponding gains in the backs of as many dies C C', and serve to retract said dies to easily admit one end of the strip moulding or mandrel Z, having its envelope of sheet metal loosely folded around it, and immediately after each insertion of the work, to set said dies toward the same, so as in successive passes to closely invest the strip with the metallic casing, and to bring the latter to a definite form and sharpness of contour, (see figs. 2 and 4.) In order to secure the edges of the metallic casing, I provide grooves F in the rear side of the strip, and corresponding projections G from the working edge of the rear die C, which projections, entering the said grooves, tightly crease or upset the edges of the metal into said grooves, and secure the work in place. In cases where the upsetting crease is so acute as to require a greater deflection than is obtainable by a direct advance of the rear die, as at H, fig. 4, I provide an auxiliary die, I, secured and adapted to slide within a dove-tailed groove, J, on the delivery side of the said rear die, and held to any desired degree of protrusion by means of a screw, K, which, traversing a slot, i, in the auxiliary die, is tapped within the said rear die. For some forms of moulding, a single adjustable die will serve.

The use of adjustable dies in this connection supersedes the necessity of such extreme uniformity in size of the successive strips or mouldings, because the dies can be set out or in to fit each strip. It also supersedes the necessity of pointing one end of each strip to enable it to be inserted in the die. The strips are drawn through my die by means of a customary grapple.

I claim herein as new, and of my invention—

1. The construction of the dies of a moulding-facing machine, in two or more adjustable parts, for the purpose set forth.
2. The arrangement of frame A, movable dies C C' C'', and set-screws D, or their equivalents, for the purpose set forth.
3. The auxiliary die I i, in the described combination with the rear die C of a two or more part moulding-facing apparatus, for the purpose explained.

In testimony of which invention I hereunto set my hand.

ROBERT HOWDON,

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.