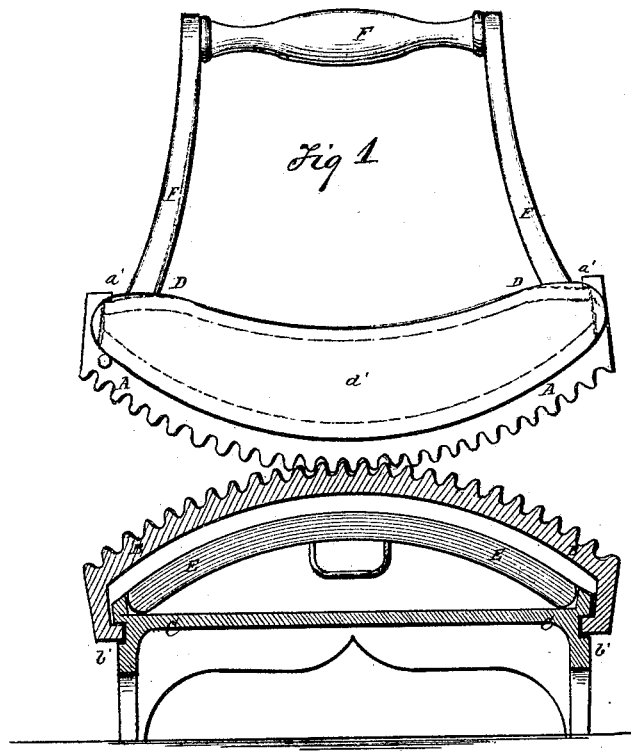


*C. Dion.*

*Fluting Machine.*

*No. 108,336*

*Patented Oct. 18. 1870.*



**Witnesses:**

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PER *[Signature]*  
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# UNITED STATES PATENT OFFICE.

CHARLES DION, OF NEW YORK, N. Y.

## IMPROVEMENT IN FLUTING-MACHINES.

Specification forming part of Letters Patent No. **108,336**, dated October 18, 1870; antedated October 15, 1870.

*To all whom it may concern:*

Be it known that I, CHARLES DION, of the city of New York, in the county and State of New York, have invented a new and useful Improvement in Fluting-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

Figure 1 is a side view of my improved fluting-machine, partly in section through the lower or stationary part.

My invention has for its object to furnish a simple and convenient machine for fluting, which shall be convenient in use and effective in operation, doing its work accurately and well; and it consists in the construction and combination of the various parts of the machine, as hereinafter more fully described.

A and B are the upper and lower fluting-plates, which are made in about the shape and form shown in the figure—that is to say, concave upon their inner and convex upon their upper sides, said convex surfaces being corrugated, as shown in the figure.

The plates A B may be cast by compression, or may be struck up out of plate or sheet metal, as may be desired or convenient.

The ends of the fluting-plates A B are made with transverse inwardly-projecting tongues upon their flanged or turned-up ends, as shown in the figure, to slip into grooves or over shoulders in the base and top pieces or parts C D; or, if desired, the ends of the said fluting-plates A B may be slipped within the ends of the bottom and top parts C D.

The base part, piece, or stand C is made of any suitable material, and with grooves, rivets, or shoulders in or upon its ends to receive the tongues *b'* or ends of the fluting-plate B. The stand or part C is so formed as to have a space or recess between its upper side and the concave side of the fluting-plate B, to receive a heating-iron or other suitable heater, E, which heater is made convex upon its upper side to correspond with the concavity of the said plate B.

The iron E is placed in and removed from its place through an opening or recess in the upper part of one side of the said part C, which opening is closed by a pivoted or hinged plate, which is not shown in the drawing, but which is precisely similar to the plate *d'* of the upper part, D. The upper part, D, is also made with a space or recess to receive a heating-iron, access to which recess is obtained, for putting in and taking out said heating-iron, through an opening in one side of said part, which opening is closed by a pivoted or hinged plate or door, *d'*.

The ends of the part D are made with shoulders or grooves to receive the tongues *a'*, or ends of the fluting-plate A, to secure the said fluting-plate in place. Upon the upper side of the part D is formed, or to it is attached, a handle, F, somewhat similar to the handle of a sad-iron.

The hand-piece of the handle F may be made of wood or other non-conducting material, to prevent the hand of the operator from being burned; or, if desired, the said handle may be provided with a guard to protect the hand from the heat.

The size of the various parts of the machine must depend upon the particular work to be done, and may be varied indefinitely without departing from my invention.

If desired, the fluting-plates A B may be made double or hollow to form a space to receive sand, plaster, or other suitable material, to retain the heat and prevent the corrugated surfaces of said plates from becoming so hot as to scorch the material being fluted.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The tongued fluting-plates A B, pieces C D, hinged plates *d'*, and handle F, all combined, arranged, and relatively constructed to operate with heaters E, as and for the purpose described.

CHARLES DION.

Witnesses:

GEO. W. MABEE,  
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