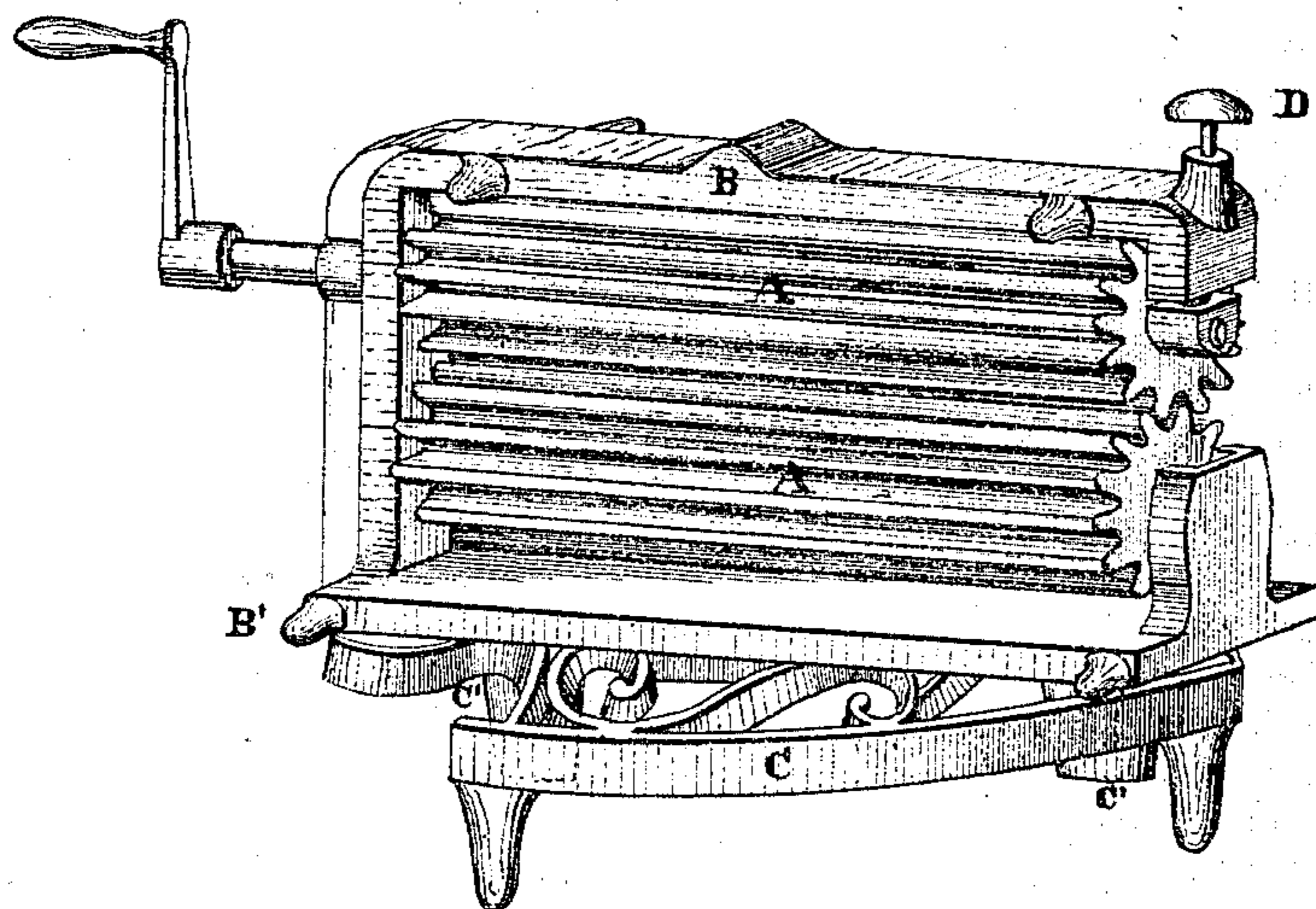


JAMES WEADON MADDEN.

Improvement in Fluting Machines.

No. 120,591.

Patented Nov. 7, 1871.



WITNESSES.

*H. Wm. Dopps.*  
*Michael J. Stark*

INVENTOR:

*James Weadon Madden*

# UNITED STATES PATENT OFFICE.

JAMES WEADON MADDEN, OF BUFFALO, NEW YORK.

## IMPROVEMENT IN FLUTING-MACHINES.

Specification forming part of Letters Patent No. 120,591, dated November 7, 1871.

*To all whom it may concern:*

Be it known that I, JAMES WEADON MADDEN, of Buffalo, county of Erie, State of New York, have invented certain Improvements in Fluting-Machines, of which the following is a description:

The nature of my invention consists in providing a fluting-machine with solid metal rollers instead of hollow brass ones, as is generally used, and in constructing the frame to receive the fluted rollers so as to enable the separation of said frame from its stand with ease, in order to heat the frame with the rollers on a stove or otherwise, as a common flat-iron is heated; the roller-frame being provided with legs or projections to support the same upon a stove while heating, and to prevent the rollers from coming in contact therewith.

I refer to the accompanying drawing which makes part of this specification, and which represents my fluting-machine in a perspective view.

A A in the drawing are two solid metal fluted rollers, having iron shafts casts in the same to enable them to be revolved, one of these shafts reacting for this purpose through the cast-iron frame B, and being provided with a crank. B is a cast-iron frame, having bearings for the reception of the fluted rollers, and being open in front to pass the fabric or clothes to be fluted between the rollers. The frame B is provided, also, with four, more or less, projections, B', on one or both sides, for the purpose of protecting the fluted rollers from injury while being heated by preventing them from coming in contact with the stove. C is an iron stand, of suitable shape or form, provided with proper sockets C' for the purpose of receiving and supporting the roller-holding frame when heated and ready to be

operated. Frame B has for this purpose on its lower or bottom side two corresponding studs or pins. D is a knob and shaft attached to the front bearing of the upper roller, and is provided with a coiled spring pressing upon the bearing and playing in frame B. It serves to keep the rollers in contact, and to release the same when pulled up, in order to pass the fabric or clothes between the rollers. If the cast-iron frame of the rollers is of sufficient weight, the same will constantly convey heat to the rollers by radiation, and thus prevent their cooling speedily. The main feature of my invention is the combining of the roller-frame with the rollers, so that the frame and rollers are heated together and the heat contained in the frame is conveyed to the rollers as they are cooled by the introduction of the fabric or clothes between them. The flat-iron stand may answer as the support for the roller-frame, though I contemplate using a frame of greater weight and size, or one provided with devices for securing it to a table or other convenient stand.

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

1. The roller-frame of a fluting-machine, provided with eyes or projections B' to support the same upon a stove while heating, and to prevent the rollers from coming in contact therewith, as described.

2. The roller-frame above described, when provided with a means of attachment to a permanent base or supporting-frame, as described.

JAMES WEADON MADDEN.

Witnesses:

H. WM. DOPP,  
MICHAEL J. STARK.

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