

F. MYERS.

Improvement in Sad and Fluting Irons.

No. 124,005.

Patented Feb. 27, 1872.

Fig. 1.

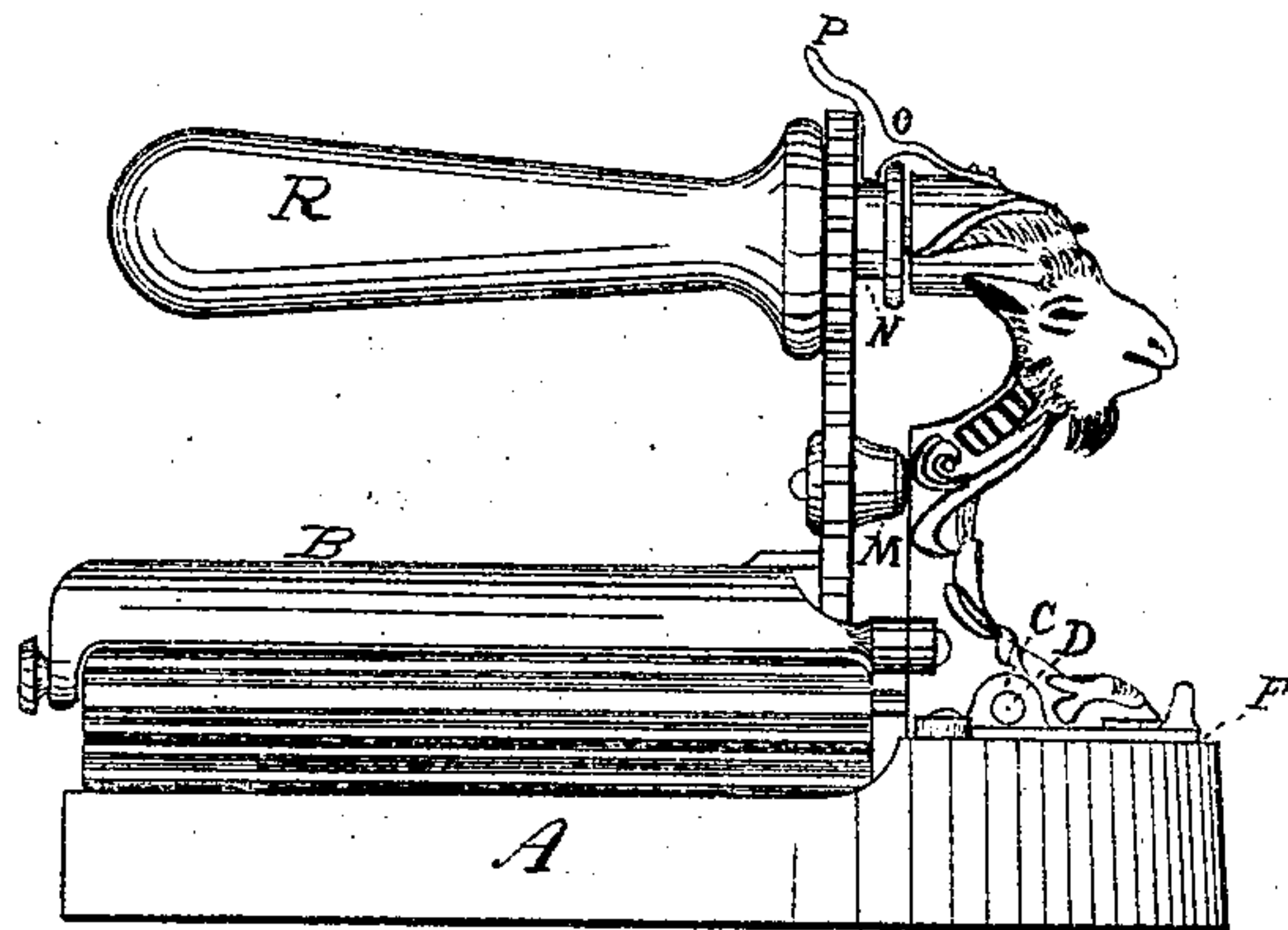
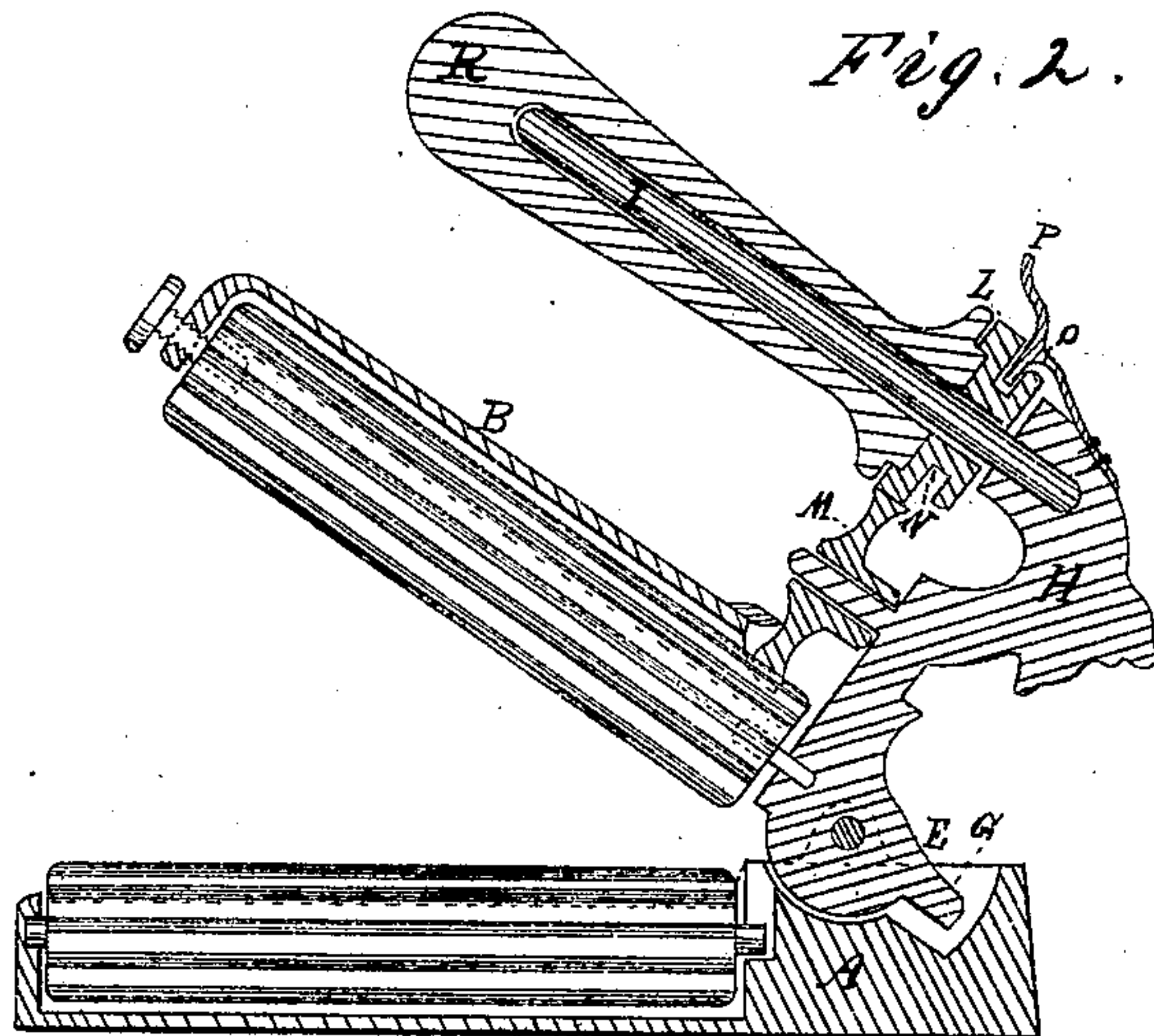


Fig. 2.



Witnesses

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# UNITED STATES PATENT OFFICE.

FREDERICK MYERS, OF NEW YORK, N. Y.

## IMPROVEMENT IN SAD AND FLUTING IRONS.

Specification forming part of Letters Patent No. 124,005, dated February 27, 1872.

Specification describing certain Improvements in Combined Sad and Fluting Iron, invented by FREDERICK MYERS, of the city, county, and State of New York.

My invention consists of a fluting-machine with a sad-iron base, in which there is a jointed connection of the upper or handled plate with the lower or sad-iron plate, and a locking device therefor by which to connect the two plates together, so that they will not be detached when the rollers are separated to introduce the fabric in between them to be fluted, and to lock the said plates together readily and securely when the instrument is to be used as a sad-iron, and in which there is a simple and economical arrangement of the handle, whereby it is made readily detachable to be taken off when the instrument is to be heated that it may be kept cool, so as to dispense with the use of a holder, the said handle being constructed of wood or any suitable material.

Figure 1 is a side elevation of my sad and fluting iron, showing the two plates jointed together and locked for working as a sad-iron, and Fig. 2 is a sectional elevation, showing the plates unlocked and the upper handled plate raised up for introducing the fabric between the rollers to be fluted.

A is the lower or sad-iron plate, and B is the upper handled plate. The latter is pivoted to the former at its front end, and a short distance behind the point of plate A, from the upper surface of which two ears, C, rise to receive the front end of plate B between them and the pivot-pin D passing through them and the said point of plate B. E is a toe projecting from said point of plate B, for locking the two plates together by a button, F, on the surface of the point of plate A, which slides under said toe, when plate B is dropped down upon plate A, said toe being so adjusted that when said plate B is so dropped down it will rise sufficiently above plate A to allow said button to pass under it. A recess, G, is provided in the top of plate A, to make room for the toe E to swing downward when the plate B is raised up. The handled plate has a vertical piece, H, rising above the pivot to support a horizontal rod or spindle, I, of wrought iron or steel, which is united to the upper end of said piece H by casting the latter upon the end of it; or it may be screwed in. This spindle or rod supports the detachable handle R,

which is made hollow for the most part of its length, and slides on said rod from the rear end. To the hollow end of this handle is fastened the pinion L, by which motion is communicated to the upper roller through the under wheel M, and also acts as a ferrule for the end of handle to prevent the same from splitting; and said pinion is provided with an annular groove, N, in its face, in which a stud or a spring, O, works to lock the handle on the rod I, said spring being secured at one end to the vertical piece H, and the other end terminating in a thumb-piece, P, so arranged that it can be readily lifted up to engage or disengage the handle from the rod I by the thumb of the hand grasping it. This locking spring may be used on the other end of the handle by attaching the same to the handle, the rod passing all the way through and projecting out beyond it a short distance, and having an annular groove near the end to allow the spring O to work therein.

It will be seen that my plan of construction of fluting-machines not only dispenses with all levers, cams, weights and springs, for separating and closing the rollers and effecting the pressure, but it enables me to apply the pressure by hand, which is highly desirable on account of the facility with which the pressure may be varied as required by the nature of the case in hand.

What I claim as my invention is—

1. I claim the arrangement of the fluting-roller supports A B, to allow the rollers to be separated for reception of the goods, and closed after the goods are introduced between the rollers for fluting by a hinge C D or its equivalent, substantially as specified.

2. The combination, with the movable and stationary roller-supports A B, hinged together, as described, of a locking device, E F, substantially as specified.

3. The combination of a detachable and revolving handle, R, with the roller-supports B, the roller thereof and the connecting train of gears in such manner that the pressure to effect the crimping may be applied and the rotary motion may be imparted to the rollers by the hand of the operator by one and the same operation, substantially as specified.

FREDERICK MYERS.

Witnesses:

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