2 Sheets—Sheet 1.

H. ALBRECHT.

Fluting-Machine.

No. 218,696. Patented Aug. 19, 1879.

Fig. 1

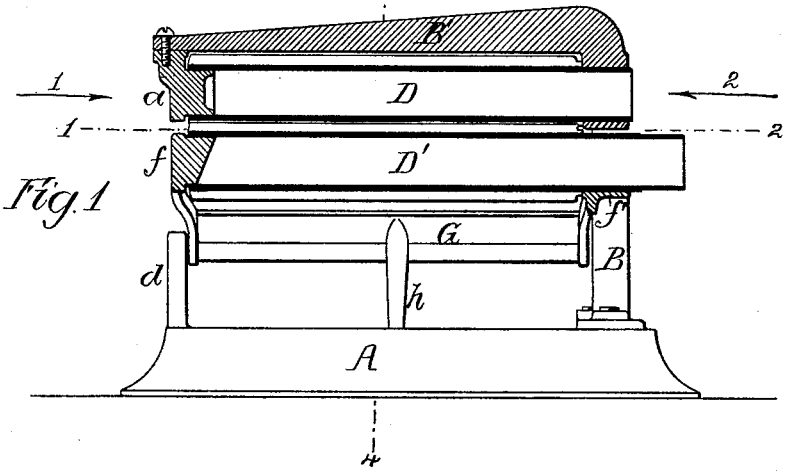


Fig. 2

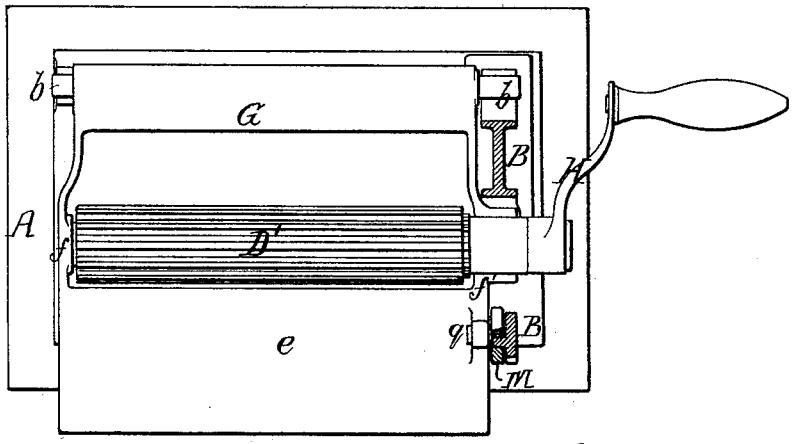


Fig. 3

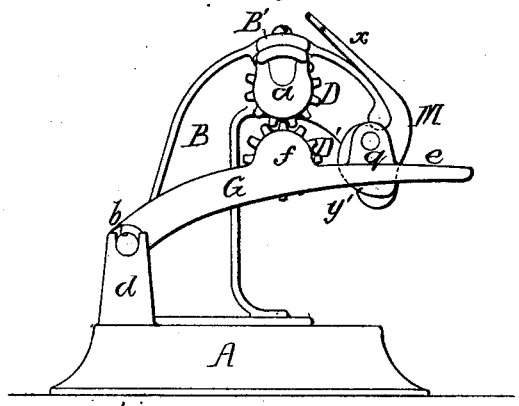
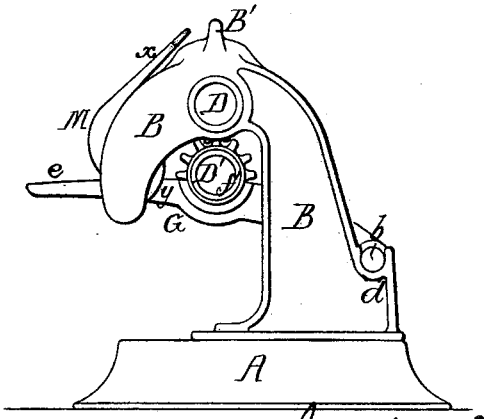


Fig. 4



Witnesses
Henry Howson Jr.
Harry Smith

Inventor
Hermann Albrecht
by his Attorneys
Howson and Sons

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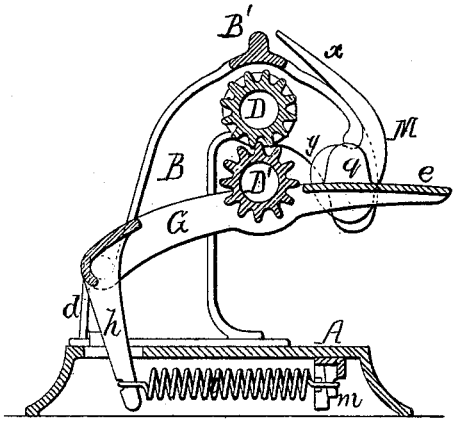


Fig. 5.

Fig. 6

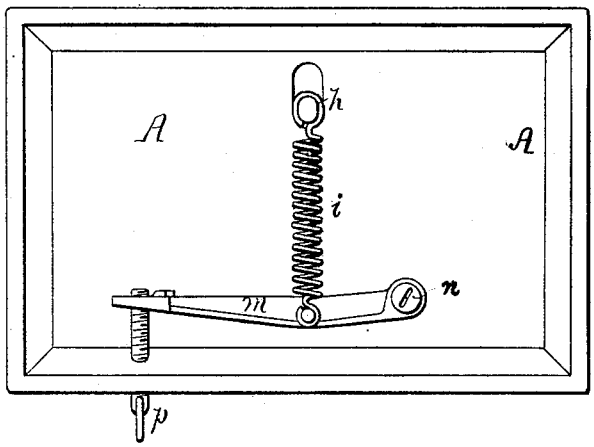
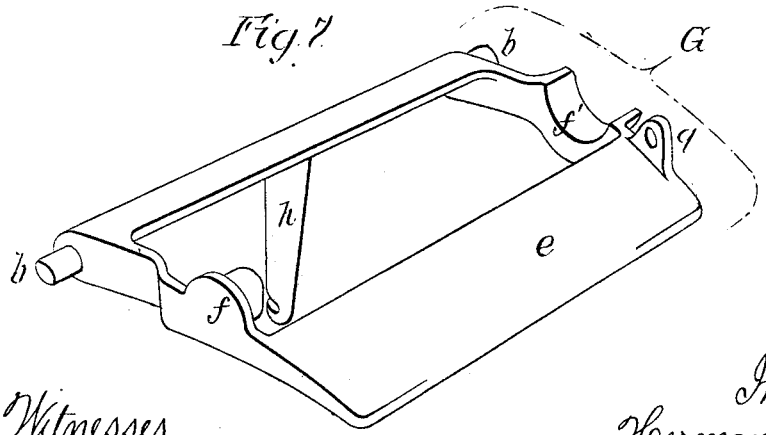


Fig. 7



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UNITED STATES PATENT OFFICE.

HERMANN ALBRECHT, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN FLUTING-MACHINES.

Specification forming part of Letters Patent No. **218,696**, dated August 19, 1879; application filed March 31, 1879.

To all whom it may concern:

Be it known that I, HERMANN ALBRECHT, of Philadelphia, Pennsylvania, have invented a new and useful Improvement in Fluting-Machines, of which the following is a specification.

My invention relates to improvements in fluting-machines in which one of the fluting-rollers is carried by a movable frame and the other by a fixed frame; and my improvements consist in a certain combination, described hereinafter, of an upper fluting-roller adapted to fixed bearings with a rocking frame carrying the lower roller, and having a table for receiving the fabric, and permitting the proper presentation of the same to the rollers, my improvements further consisting of devices, described hereinafter, for imparting an upward pressure to the rocking frame.

In the accompanying drawings, Figure 1 is a vertical section of my improved fluting-machine; Fig. 2, a sectional plan on the line 1 2, Fig. 1; Fig 3, a view of the outer end of the machine, looking in the direction of the arrow 1, Fig. 1; Fig. 4, a view of the opposite end of the machine, looking in the direction of the arrow 2, Fig. 1; Fig. 5, a vertical section on the line 3 4, Fig. 1; Fig. 6, an inverted plan view, and Fig. 7 a perspective view, of the rocking frame which carries the lower fluting-roller.

A is the base of the machine, and to the top of this base, near one end of the same, is secured the frame B, of which the projecting arm B′ (best observed in Fig. 1) forms a part.

The upper fluting-roller, D, has one of its bearings in the frame B, and its other bearing in a lug, *a*, secured to the outer end of the projecting arm B′.

The lower fluting-roller, D′, is carried by the pivoted rocking frame G, a perspective view of which is shown in Fig. 7. This frame has two pins or trunnions, *b b*, having bearings in projections *d d* on the base, and the front portion, *e*, of the frame is the platform or table on which to place the fabric to be submitted to the action of the rollers.

There are two bearings, *f f′*, on the rocking frame, the former for the outer journal of the lower fluting-roller, and the latter for the inner journal of the same, this inner journal being continued outward from its bearing, so as to receive the handle H.

An arm, *h*, projects downward from the rear of the frame G through a slot in the base A, and the end of this arm is connected by a spring, *i*, to a lever, *m*, which is pivoted at *n* to the under side of the base, the long arm of the lever being under the control of a screw, *p*, by turning which the spring may be caused to raise the rocking frame and press the lower roller against the upper roller with more or less force, as circumstances may require.

In order to depress the rocking frame and lower roller, and maintain the latter at a distance from the upper roller when required, I pivot to a lug, *q*, on one end of the said rocking frame a cam-lever, M, which is in the position shown in Fig. 5 when the rocking frame is raised to its full height and the lower roller is in forcible contact with the upper roller; but on depressing the arm *x* of the lever its cam *y*, bearing against a shoulder on the frame B, will cause the depression of the rocking frame, the cam being such as to retain the frame in a depressed condition until the arm *x* is elevated. By this device the lower roller and table may be maintained in such a position as to enable the operator to adjust the fabric properly before it is confined between the rollers.

The cam-lever may, if desired, be pivoted to the frame B, the cam in this case bearing on the rocking frame.

A slight separation of the rollers, sufficient to permit the adjustment or removal of the fabric, may be effected by simply pressing down upon the table *e* of the rocking frame—an operation which can readily be performed, as the hands rest upon said table while the fabric is being fed to the rollers D D′.

I claim as my invention—

1. The combination, in a fluting-machine, of the base A, the frame B B′, carrying the upper roller, the rocking frame G, carrying the lower roller, pivoted in the rear of the same, and having in front a table, *e*, on which to place the fabric, and devices whereby a yielding up-

ward pressure is imparted to said rocking frame, all substantially as set forth.

2. The combination of the rocking frame G, pivoted to the base A, the arm *h* of said frame projecting through an opening in the base, the spring *i*, and lever *m*, arranged beneath the base, and the adjusting-screw *p*, projecting through the front of the base, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERMANN ALBRECHT.

Witnesses:
WILLIAM J. COOPER,
HARRY SMITH.