

H. ALBRECHT.
FLUTING-MACHINE.

No. 174,999.

Patented March 21, 1876.

Fig. 1.

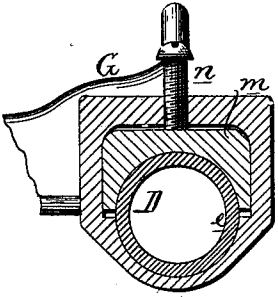
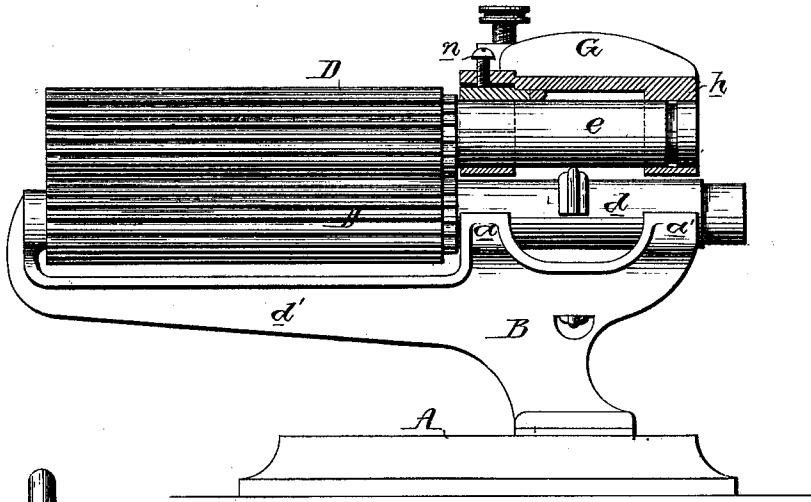


Fig. 3.

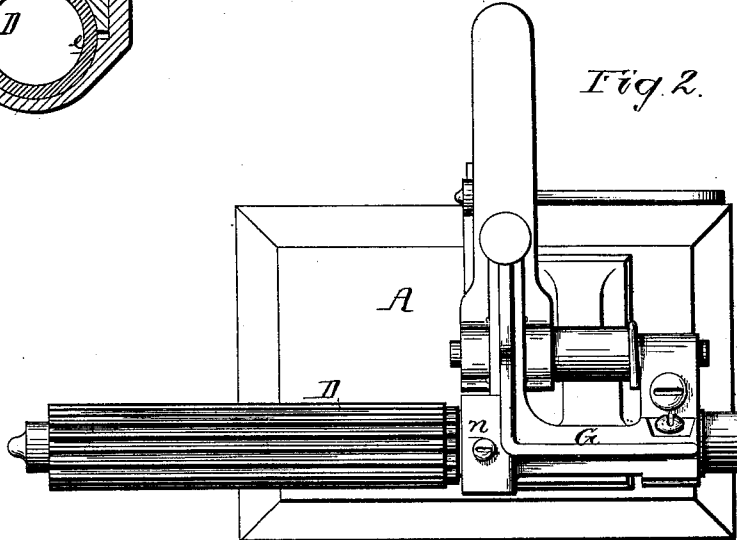


Fig. 2.

Witnesses
Harry Hoar on the
Harry Smith

Hermann Albrecht
by his Attorneys
Howson and son

UNITED STATES PATENT OFFICE.

HERMANN ALBRECHT, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN FLUTING-MACHINES.

Specification forming part of Letters Patent No. **174,999**, dated March 21, 1876; application filed February 21, 1876.

To all whom it may concern:

Be it known that I, HERMANN ALBRECHT, of Philadelphia, Pennsylvania, have invented certain Improvements in Fluting-Machines, of which the following is a specification:

My invention relates to an improvement in the fluting-machine for which Letters Patent No. 168,954 were granted to my assignees, the American Machine Company, on the 19th day of October, 1875; and the object of my invention is to maintain the fluted rolls in proper operating gear with each other.

In the accompanying drawing, Figure 1 is a front view of a fluting-machine with my improvement; Fig. 2, a plan view, and Fig. 3 a detached sectional view, illustrating my invention.

A is the base of the machine, and B the frame, having two bearings, *a* and *a'*, for the spindle *d* of the lower fluting-roller D. An arm, *d'*, projects from and forms a part of the frame B, and the turned-up end of this arm has a projection adapted to the interior of the lower fluting-roller, and serves as an outer bearing for the same, as described in the said patent. The spindle *e* of the upper roller D has its bearings in a frame, G, which is pivoted to the frame B, so that it can be elevated and depressed with the roller, and retained when depressed, in a manner too fully set forth in the said patent to need description here. In the patent, however, both bearings for the spindle *e* of the upper fluting-roller were permanent parts of the pivoted frame; hence, when these bearings or the portion of the spindle in contact with them became worn,

the outer end of the upper roller was at liberty to yield, and did not act properly on the fabric in conjunction with the lower roller. In order to obviate this difficulty I construct the pivoted frame in the manner shown in Fig. 3, for the reception of an adjustable inner bearing, *m*, which can be depressed by a set-screw, *n*, the outer bearing being the same as in my said patent.

The fabric, in passing between the fluting-rolls, has a tendency to elevate the outer end of the upper overhanging roll, and this tendency is exerted through a leverage against the bearing *m*, which is consequently subjected to the greatest friction, and is worn away more rapidly than the outer bearing *h*. When the yielding of the outer end of the upper roller indicates the fact that the bearing *m* or the portion of the spindle in contact with it has been unduly worn, all that is necessary is to depress the former until the upper fluting-roller is in proper operating gear with the lower roller.

I claim as my invention—

The combination, in a fluting-machine, of the upper overhanging fluting-roller D, and its spindle *e*, with the pivoted frame G, its outer bearing *h*, and inner adjustable bearing *m*, all substantially as set forth.

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

HERMANN ALBRECHT.

Witnesses:

JNO. A. BELL,
HARRY SMITH.