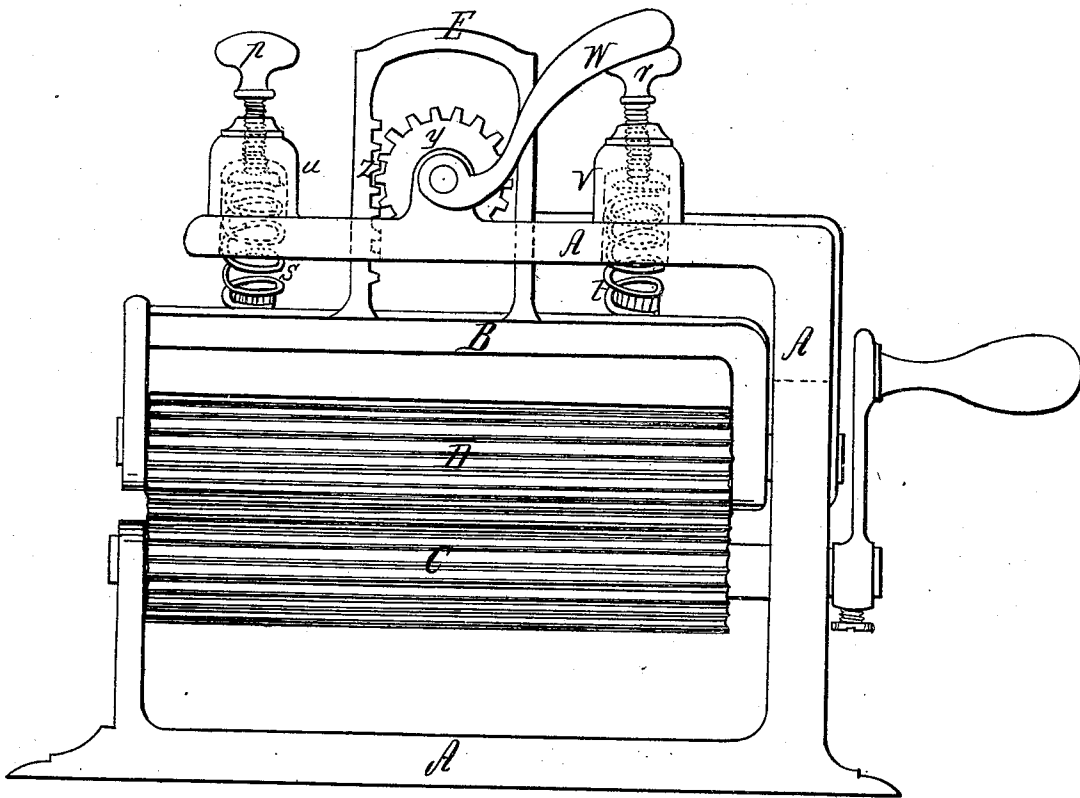


T. M. Tucker.

Fluting Mach.

N^o 111,588.

Patented Feb. 7, 1871.



Witnesses;
H. M. Goding.
Edward Collier

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United States Patent Office.

THEODORE M. TUCKER, OF NEWARK, NEW JERSEY.

Letters Patent No. 111,588, dated February 7, 1871.

IMPROVEMENT IN FLUTING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

I, THEODORE M. TUCKER, of the city of Newark, in the county of Essex and State of New Jersey, have invented certain Improvements in Fluting-Machines, of which the following is a specification.

The first part of my improvement relates to the means employed for separation of the rollers and the combination of the same with the slide-guide of the upper roller.

The second part of the improvement relates to the provision made for suitable adjustable pressure-springs in the upper bar of the main frame.

In the accompanying drawings—

A is the main bed-piece and frame.

B is the movable frame or holder of the upper roll.

C is the under roller, with its bearings in the main frame.

D is the top roller, with bearings in the frame B.

In the top bar of the main frame A is a slot to admit the combined rack and guide E, the guide being an integral part of the movable frame B.

The slide-guide E is a frame with a rack on the inner side of one of the uprights.

Provision is made on the top bar of the main frame

for bearings for a pinion, *y*, to be operated by the lever-handle W.

By means of the rack *z* and pinion *y* the upper roller D is lifted for the insertion of the material to be fluted between the rollers.

To hold and guide spiral springs of the required strength and tension without incumbrance to the frame, two projections, *u* and *v*, are cast upon the main frame, with holes from below through the bar to receive the spiral springs, as shown by the dotted lines, the tension of the springs *s* and *t* being graduated by the thumb-screws *p* and *r* that are tapped through the solid tops of the projections *u* and *v*.

I claim as my improvement—

The rack *z* and pinion *y*; the projections *v* and *u*, spiral springs *s* and *t*, the movable frame B and its roller D, constructed, combined, and arranged as and for the purpose shown and described.

THEODORE M. TUCKER.

Witnesses:

W. M. GOODING,
EDWARD COLLVER.