W. D. Corrister.

Fluting Mach.

No. 84,799. Patented Dec. 8, 1868.

Fig: 1

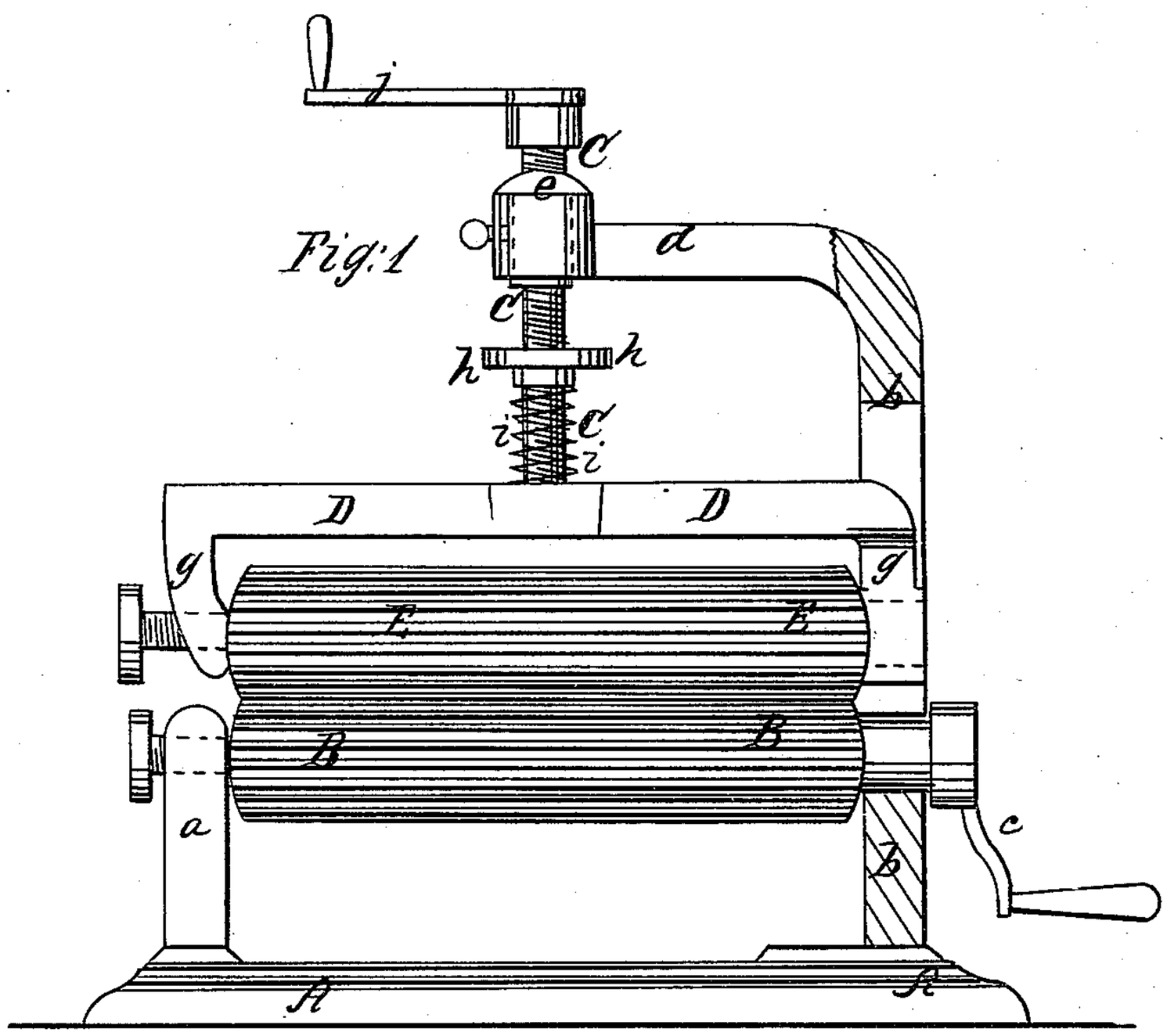
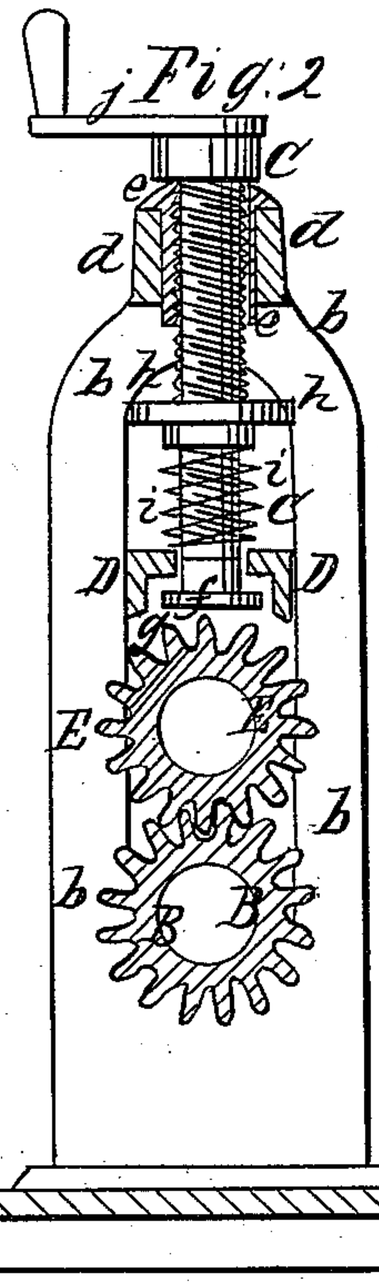



Fig: 2




Witnesses

Wm a Morgan

G b Cotton

Inventor

W. D. Corrister

per Munn & Co

Attorneys

# United States Patent Office.

WILLIAM D. CORRISTER, OF NEW YORK, N. Y.

*Letters Patent No.* 84,799, *dated December* 8, 1868.

## IMPROVEMENT IN FLUTING-MACHINES.

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

*To all whom it may concern:*

Be it known that I, WILLIAM D. CORRISTER, of the city, county, and State of New York, have invented a new and improved Fluting-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

Figure 1 represents a side elevation, partly in section, of my improved fluting-machine.

Figure 2 is a vertical transverse section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to improvements in fluting-machines; and

It consists in the arrangement of the screw operating the upper roller, the spring surrounding the same, the nut for regulating the tension of the spring, and the bent bar carrying the upper roller, and through which the operating-screw passes.

A, in the drawing, represents the main frame of the machine.

In the standards *a b* of the same are the bearings of a hollow corrugated roller, B, on the axis of which a crank, *c*, or other equivalent device, is arranged.

The standard *b* extends upward above the roller B, and has a horizontal arm, *d*, formed on it, the end of which arm is about above the middle of the roller B, as shown.

Through the end of the arm *d* is formed an upright aperture, through which a nut, *e*, may be fitted, as in fig. 2, or which may have a female-screw thread formed directly in it.

C is a screw, fitted through the nut *e* or its equivalent.

The lower end of the screw C fits through a horizontal bar, D, and has a head, *f*, formed on it, so that it will suspend the said bar D, and will allow the same to slide upward above the head *f*.

From the ends of the bar D project downward, arms *g g*, in which the bearings for the upper corrugated hollow roller E are arranged.

It will be seen that, by turning the screw C, by means of a crank, *j*, or other mechanism, the frame D, and, with it, the upper roller E, can be adjusted up or down at will, to regulate the distance between the two rollers, in accordance with the thickness of material to be fluted.

But, to produce a certain degree of pressure, a spiral spring, *i*, is fitted around the screw, between the plate D and a nut, *h*, working on the screw, as is clearly shown. Thus, by adjusting the power of the spring *i*, the pressure of the upper roller will be regulated, and the said upper roller will also be made yielding to inequalities in the thickness of the material.

I am aware that various kinds of levers and other devices have been used for regulating the position of the upper roller of a fluting-machine. I am also aware that fluting-machines have been used in which the upper roller was hung in independent bearings, connected together by a flat spring, and suspended from a bent arm, by means of the operating-screw passing through the centre of the spring; but this construction forms no part of my invention, and I do not claim it. Moreover, the cutting away of the spring at its centre, for the passage of the screw, greatly weakens said spring, and therefore impairs the efficiency of the machine.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The described arrangement of the operating-screw C, spring *i*, nut *h*, and bent bar D, as herein set forth, for the purpose specified.

WILLIAM D. CORRISTER.

Witnesses:

FRANK BLOCKLEY,
ALEX. F. ROBERTS.