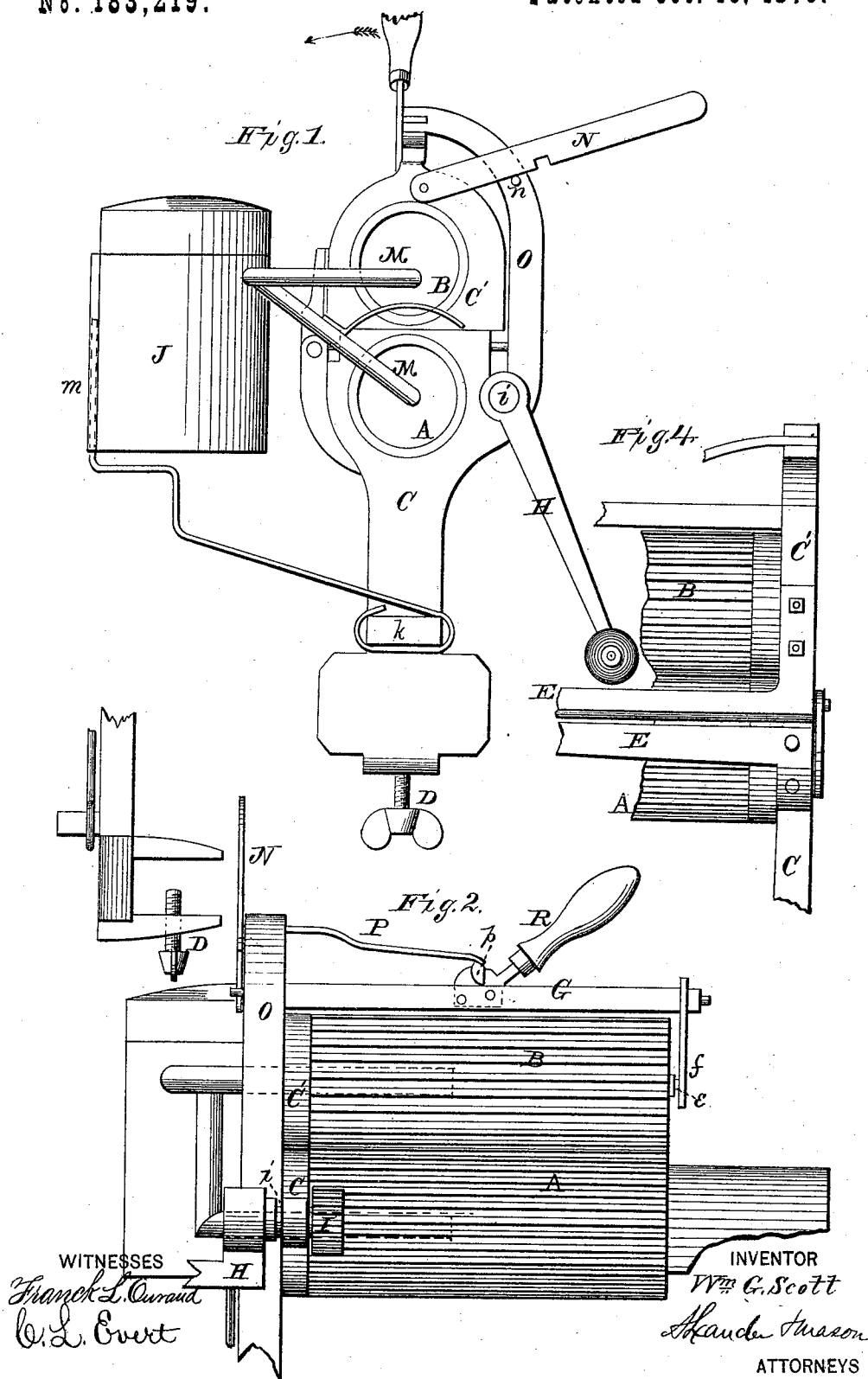


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FLUTING-MACHINES.

No. 183,219.

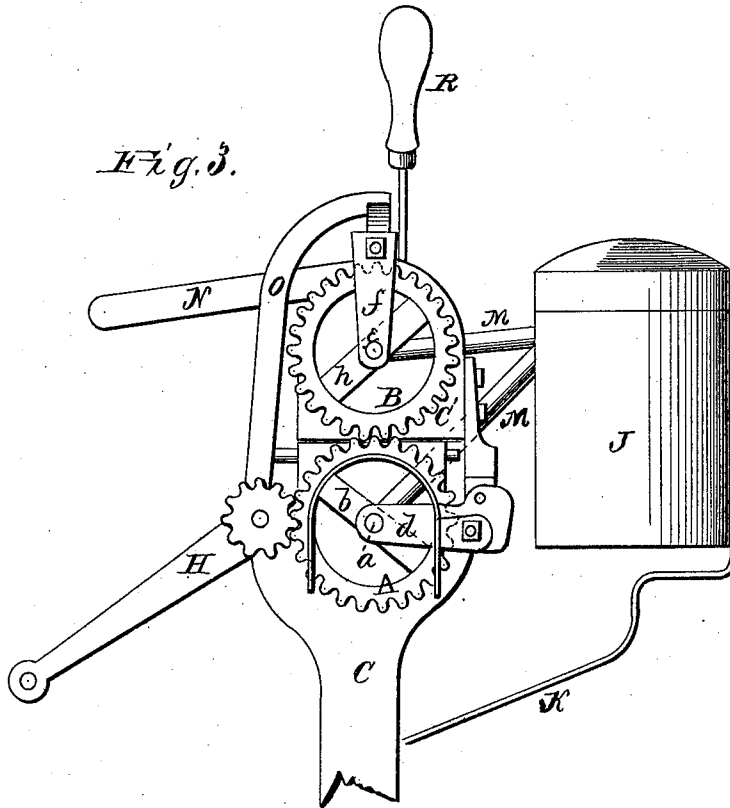
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WITNESSES
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WILLIAM G. SCOTT, OF VARDEN, MISSISSIPPI.

IMPROVEMENT IN FLUTING-MACHINES.

Specification forming part of Letters Patent No. **183,219**, dated October 10, 1876; application filed August 24, 1876.

To all whom it may concern:

Be it known that I, W. G. SCOTT, of the town of Varden, in the county of Carroll, and in the State of Mississippi, have invented certain new and useful Improvements in Fluting-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a fluting-machine, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is an end view of my machine. Fig. 2 is a front view of the same. Fig. 3 shows the other end of the machine, and Fig. 4 shows a portion of the rear side thereof.

A and B represent the two longitudinally-corrugated fluting-rollers, which are made hollow and open at both ends. The inner end of the lower roller A is made smooth, and has its bearing in a circular orifice in the metal frame or head C, at the lower end of which are jaws, with set-screw D for fastening the machine to the table. At the outer end of the roller A is a cross-bar, *b*, with a pivot, *a*, in the center, which has its bearing in an arm, *d*, projecting from a bar, E, this bar running from the head C along the back of the machine. Above the bar E is another similar bar, E', pivoted at its ends, and having a head-piece, C', attached to it at its inner end. In this head-piece or frame C' the top roller B has its inner bearing, and a bar, G, extends from said head-piece over the top of said roller, and has on its other or outer end an arm, *f*, in which a pivot, *e*, has its bearing, said pivot projecting from the center of a cross-bar, *h*, in the outer end of said top roller B.

Through the head C is passed a short shaft,

i, having upon its outer end a crank, H, and on the inner end a pinion, I, which meshes with the lower roller A for turning the same.

The machine is intended to be heated by the alcohol-lamp J, which is attached, by means of a wire, K, sprung over a step, *k*, on the lower part of the frame or head C, the other end of said wire extending to the rear and pointing upward. On the back of the lamp is a tube or collar, *m*, which is slipped over the wire, and the lamp then turned around, so that the two tubes or burners M M will enter the rollers. At the top of the frame C' is hinged a latch, N, which lies over a pin, *n*, on the side of an arm, O, that projects from the front of the head C. From this arm O projects a spring, P, which bears on a cam, *p*, attached to a lever, R, pivoted to the top bar G.

To operate the machine the handle R is turned over nearly upright, which relieves the pressure of the spring, and, by the same handle, the upper portion of the machine is raised on its hinge, and the latch N catches on the pin *n*, to hold the upper roller clear of the lower roller until the article to be fluted is slipped between the rollers as far as desired. Then the latch N is released, and the upper roller falls back to its place. The handle or lever R is thrown down, as shown in Fig. 2, thereby tightening the spring; and, by turning the crank E, the rollers are rotated, and the cloth, passing through, becomes fluted.

To heat the rollers the lamp is turned on the wire, which brings the burners out. The lamp is filled with spirit or other burning fluid, the two burners lighted, and the lamp turned back, the burners entering their respective rollers.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a fluting-machine, the combination of the stationary frame C E, carrying the lower roller A, the hinged frame C' E' G, carrying the upper roller B, the latch N, and pin *n*, all constructed substantially as and for the purposes herein set forth.

2. The combination of the hinged frame C'

G, with roller B, the spring P, and pivoted handle R, with cam *p*, substantially as and for the purposes herein set forth.

3. In combination with the hollow open-ended rollers of a fluting-machine, a lamp, J, provided with burners M M, and arranged to swing upon a rod or wire, K, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 29th day of July, 1876.

W. G. SCOTT.

Witnesses:

GEO. F. REYNOLDS;
F. JESTY.