

F. M. BRUSH.  
Organ-Stop Action.

No. 160,568.

Patented March 9, 1875.

Fig. 1.

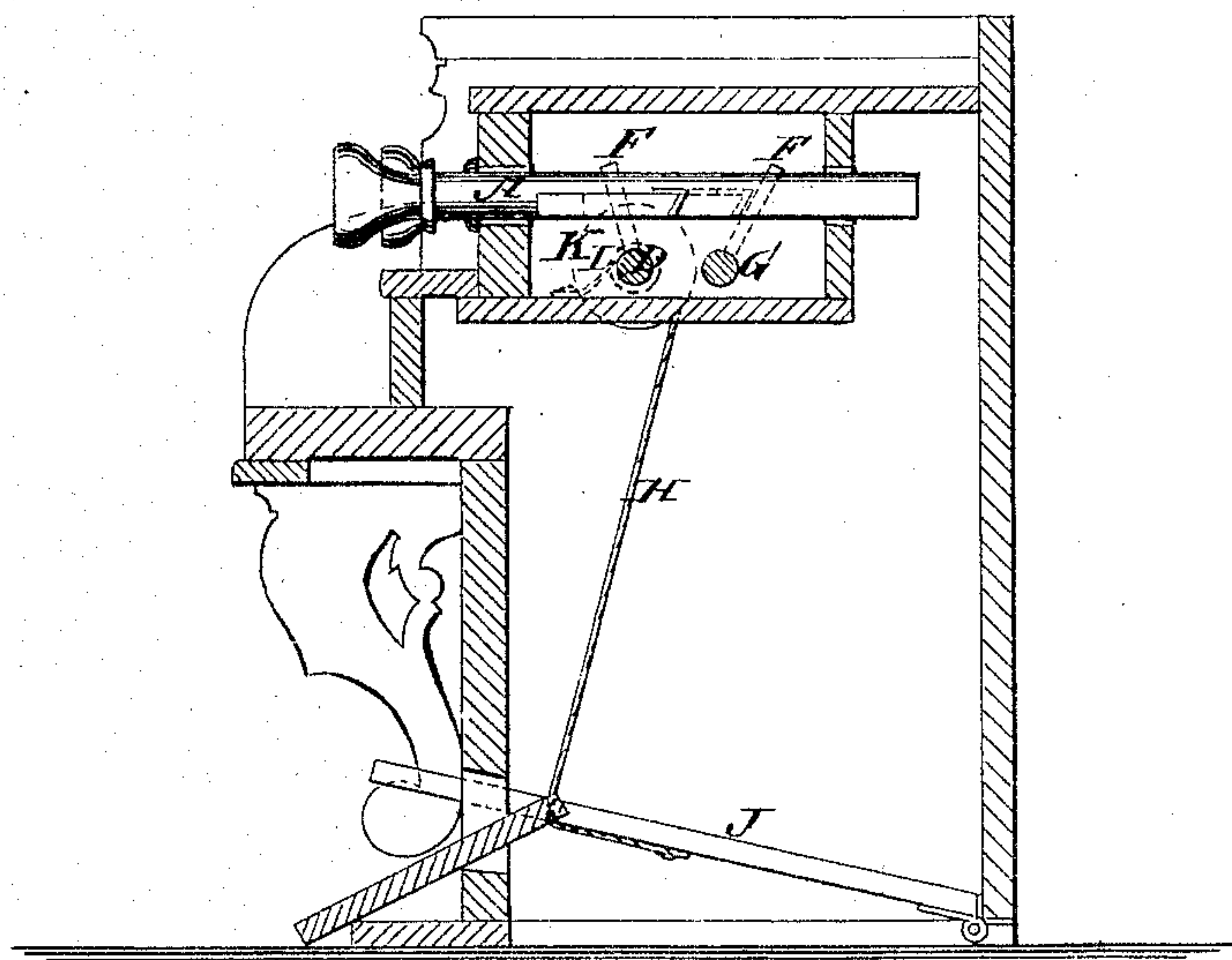
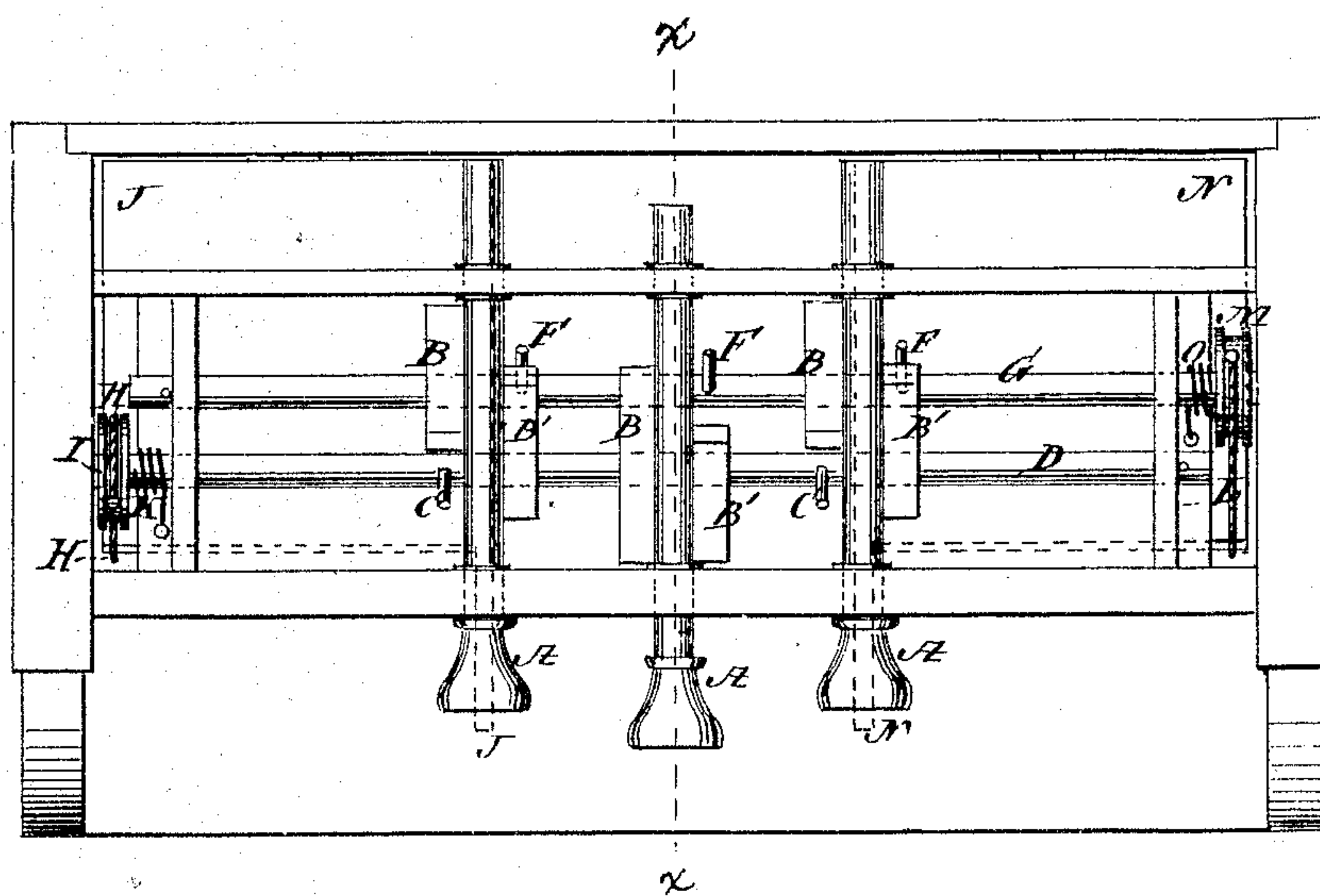


Fig. 2.



WITNESSES:

*E. Tracy*  
*Chadwick*

INVENTOR:

*F. M. Brush*

BY

*Wm. H. G.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

FREDERICK M. BRUSH, OF POTSDAM, NEW YORK.

## IMPROVEMENT IN ORGAN-STOP ACTIONS.

Specification forming part of Letters Patent No. **160,568**, dated March 9, 1875; application filed June 27, 1874.

*To all whom it may concern:*

Be it known that I, FREDERICK M. BRUSH, of Potsdam, St. Lawrence county, New York, have invented a new and useful Improvement in Organs, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claim.

Figure 1 is a transverse section of an organ, taken on the line *x x*, Fig. 2, showing my invention; and Fig. 2 is a plan view of the stops and apparatus for working them.

Similar letters of reference indicate corresponding parts.

A represents the stops, which are arranged to be pushed out or pulled in by hand, in the usual way, and, besides, are provided with a lug, B B', on two sides, respectively, to be acted on by the arms C of the shaft D to be pushed in, and by the arms F of the shaft G to be pushed out. Shaft D has a cord, H, extending down from a pulley, I, to a pedal, J,

for turning it to push the stops in, and a spring, K, for pulling it back, and shaft G has a cord, L, extending down from pulley M to a pedal, N, for turning it to push the stops out, and a spring, O, to turn it back.

The pedal may be arranged to be worked by the feet, hands, or knees, as preferred; but it will probably be most desirable to have them adapted to be worked by the feet.

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

The draw-stops A, having lugs B B', and the rock-shafts G D, provided with the pulleys M I, springs K O, and cords H L, in combination with on and off treadles, all the said parts being constructed to operate substantially as and for the purpose set forth.

FREDERICK M. BRUSH.

Witnesses:

LUKE USHER,  
ALEXR. M. BRUSH.