E. H. Thomas Jr.

Organ Bellows.

No. 71,245. Patented Nov. 19, 1867.

Fig: 2.

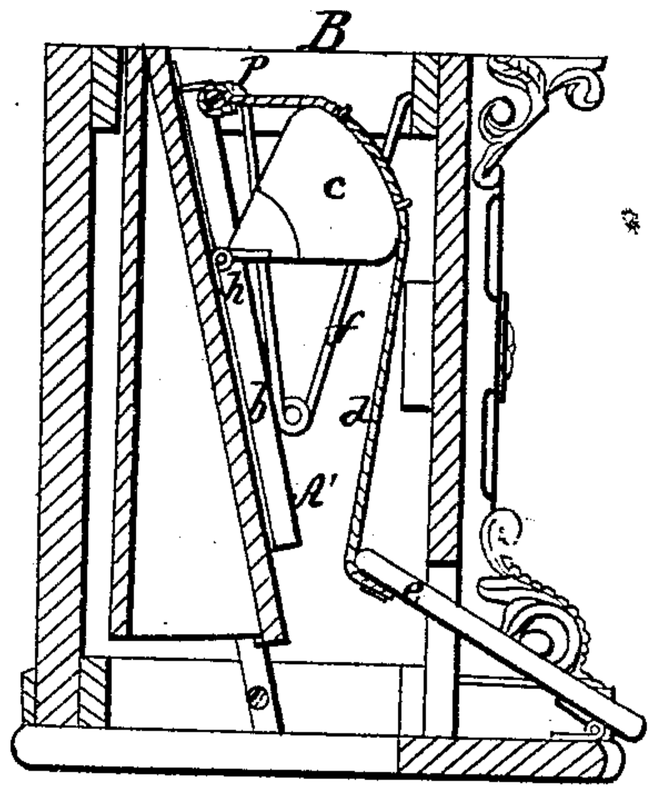
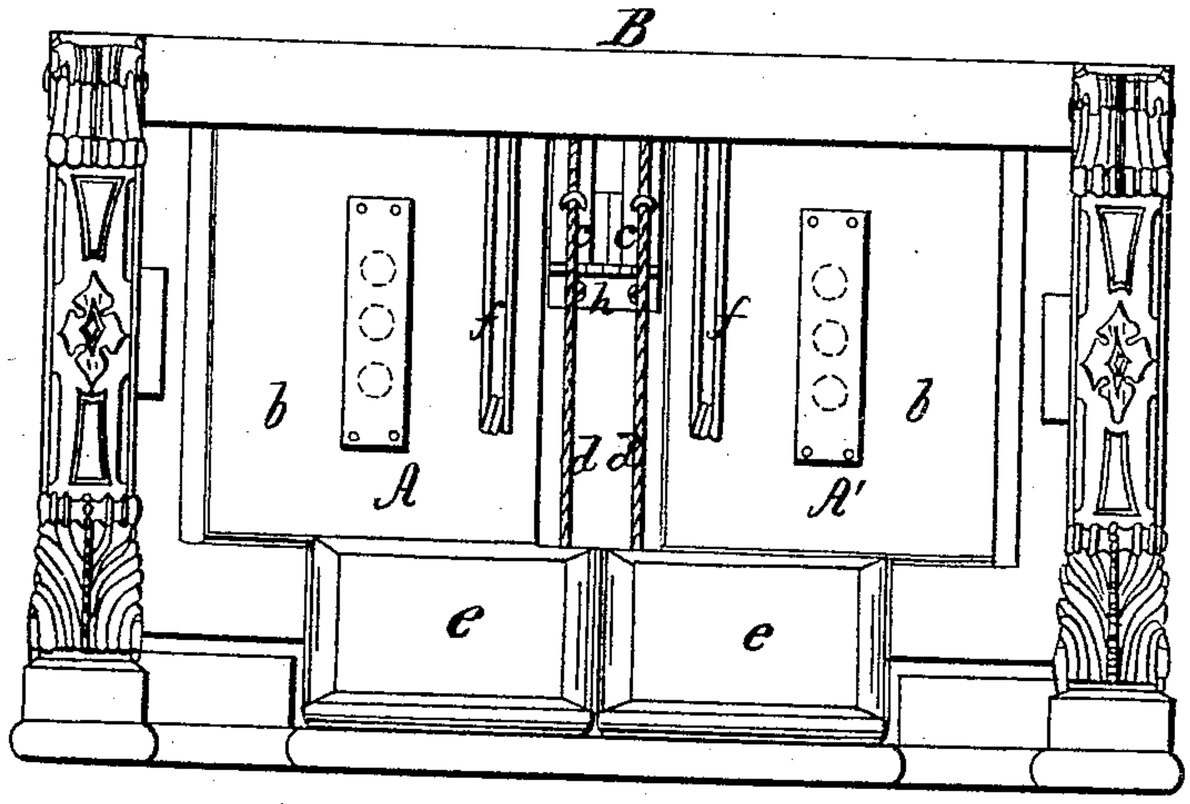


Fig. 1.



Witnesses;

S. N. Piper.

Jos. P. C. Mullen

Inventor;

E. H. Thomas

by his attorney

R. Mackay

United States Patent Office.

ELIHU H. THOMAS, JR., OF BRATTLEBORO, VERMONT, ASSIGNOR TO J ESTEY AND COMPANY, OF THE SAME PLACE.

Letters Patent No. 71,245, *dated November* 19, 1867.

IMPROVEMENT IN ORGAN-BELLOWS.

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

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, ELIHU H. THOMAS, Jr., of Brattleboro, in the county of Windham, and State of Vermont, have invented a new and useful Improvement in the Blowing Mechanism of Reed or other Organs; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a front elevation of a pair of organ-bellows provided with my invention.

Figure 2 is an inner end view of one of the bellows, and the mechanism for operating it.

This invention is applicable to what are termed upright bellows. Most of the modes heretofore employed for operating the movable or pumping-board of a bellows of an organ are more or less complicated, and liable to become deranged, or to easily get out of order, and cause more or less noise while in action. My improvement is simple in construction, very still and efficient in its operation, and may be thus described:

In the drawings, A A′ are a pair of upright bellows, of which *b* are the movable or pumping-boards, such bellows being arranged within an organ-case, B, in the usual manner, as represented in the drawings. Near the inner edge of each of the said movable boards *b* is a sector, *c*, which at its vertex is connected to the organ-frame by a hinge, *h*. A rope or strap, *d*, fastened to a pin, *p*, projecting from the upper part of the inner edge of the board *b*, passes around, and may be fastened in one or more places to the arc of the sector, and thence extends downward and is fastened to one of two pedals, *e e*. To each board *b* and the organ-frame a spring, *f*, is applied close to the sector, such spring being for the purpose of forcing forward the board after each retraction of it by the pedal, the strap, and the sector. By pressing the pedal downward, the sector will be moved or turned on its hinge, and the strap will draw the board *b* backward, its return to place being subsequently effected by the spring. The sector throughout its vibrations plays with very slight friction and movement at its hinge, and thus is very still and effective in its operation.

What I claim as my invention, is—

The combination and arrangement of the sector and its hinge with the strap, the pedal, the bellows, and its operative spring, the whole being substantially as specified.

ELIHU H. THOMAS, JR.

Witnesses:

GEO. NEWMAN,

WILLIAM S. NEWTON.