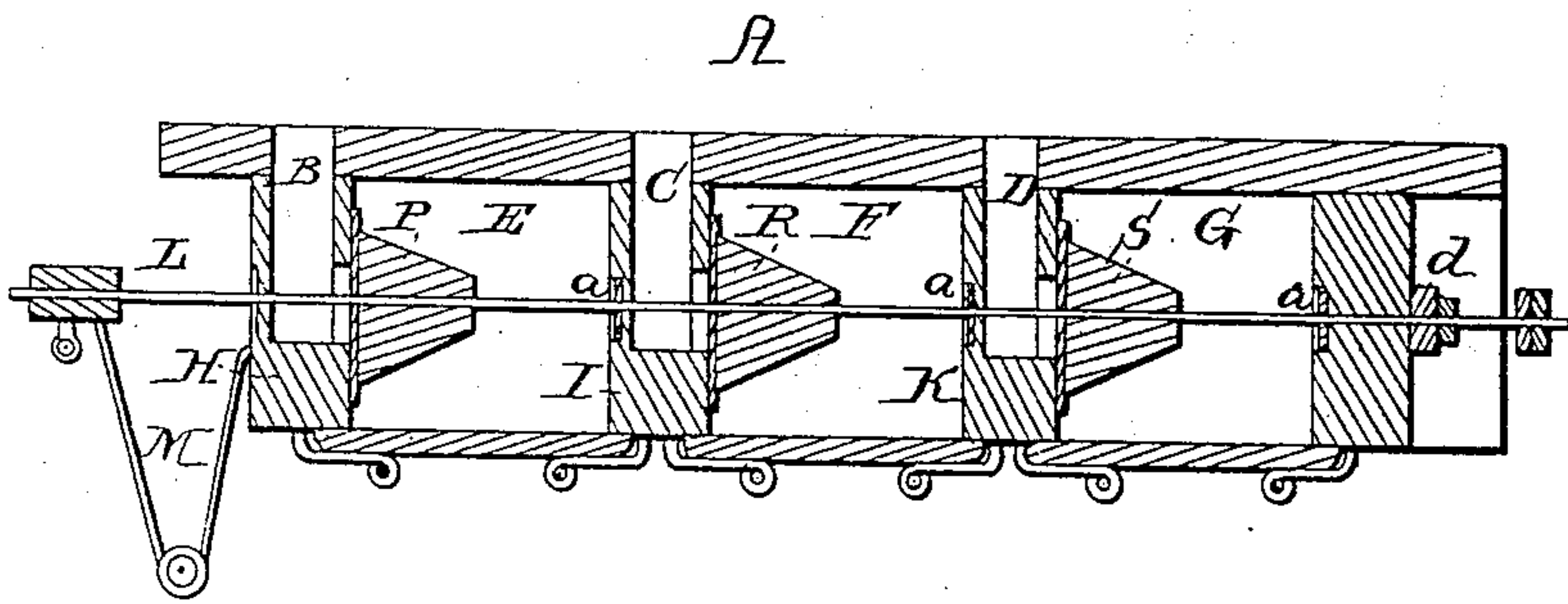


M. Baumgarten, Jr.,
Pipe Organ,
N^o 83,241. Patented Oct. 20, 1868.



Witnesses;

J. H. Shumway
a J. Tibbitts

Inventor;

Moritz Baumgarten, Jr

By his Attorney

Thos. E. Earle



MORITZ BAUMGARTEN, JR., OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 83,241, dated October 20, 1868.

IMPROVEMENT OF VALVE-ARRANGEMENT FOR ORGANS.

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, MORITZ BAUMGARTEN, JR., of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Valve-Arrangement for Organs; and I do hereby declare the following, when taken in connection with the accompanying drawing, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents a sectional view of the wind-chest, with the valves for the three sets of pipes.

This invention relates to an improvement in the arrangement of the valves to open communication from the wind-chest to the pipes; the object being to render the closing of the pipes more positive and perfect than has heretofore been done, as well as to materially lessen the cost of construction, the invention being an improvement upon a patent granted to me, June 12, 1866; and this invention consists in fixing the several valves, one for each chest, upon a single rod, so that the movement of the said rod both opens and positively closes the valves, the rod passing through the opening communicating to the pipe, so that the valves may be easily adjusted on the rods to close their respective openings.

To enable others to construct my improvement, I will fully describe the same, as illustrated in the accompanying drawing.

A is the upper plate of the wind-chests E F G, the said chests being formed by partitions H I K, and each of the chambers communicating, through openings B C D, with its respective sets of pipes, as denoted, in the drawing. Centrally through the openings which communicate directly to the chambers, I pass a rod, L, upon which is arranged a spring, M, so as to force the rod forward, and connected with a corresponding key on the key-board, so that the depression of the key forces the rod inward. On the said rod in each of the chests, are fixed the respective valves P R S, all adjusted so that, when the rod is free, the three valves will tightly close their respective openings. Upon the face of the valve, I attach a piece of kid, for packing,

of larger diameter than the face of the valve, so that if, from any cause or disadjustment, the valve-blocks of one should not lie tightly against and so as to perfectly close the opening, the kid packing will by the wind be forced on to the partition, so as to make the closing of the opening perfect. In each partition, at the perforation through which the rod passes, as at *a*, I fix a suitable packing around the rod to prevent the passage of the wind from one chest to another, and upon the outside partition, I arrange a packing, *b*, upon the rod, similar to the packing in my patent before referred to.

By this arrangement, it will be seen that the construction of the wind-chest is very much simplified, and greatly reduced in dimensions, and the expense of construction consequently very greatly reduced, all of which tend to improve the instrument.

The rod is forced inward in the usual manner, and being so forced, opens all the valves upon the rod in as perfect manner as in my patent before referred to. The closing of the valves is by this construction rendered positive and perfect.

A thread may be cut upon the rod, and the valves adjusted thereon, by being secured on to the rod, or a set-screw may be set into the valve on to the rod, so as to fix the valve in its proper position. These valves move directly and bodily from the opening, which admits a free passage of wind entirely around the valve, which is in itself an advantage over the ordinary construction.

Having thus full described my invention,

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

The valves P R S, in number corresponding to the number of wind-chests, constructed in the manner described, and arranged and fixed upon the valve-rod L, so as to be operated in their respective chambers, substantially in the manner herein set forth.

MORITZ BAUMGARTEN, JUNR.

Witnesses:

J. H. SHUMWAY,

A. J. TIBBITS.