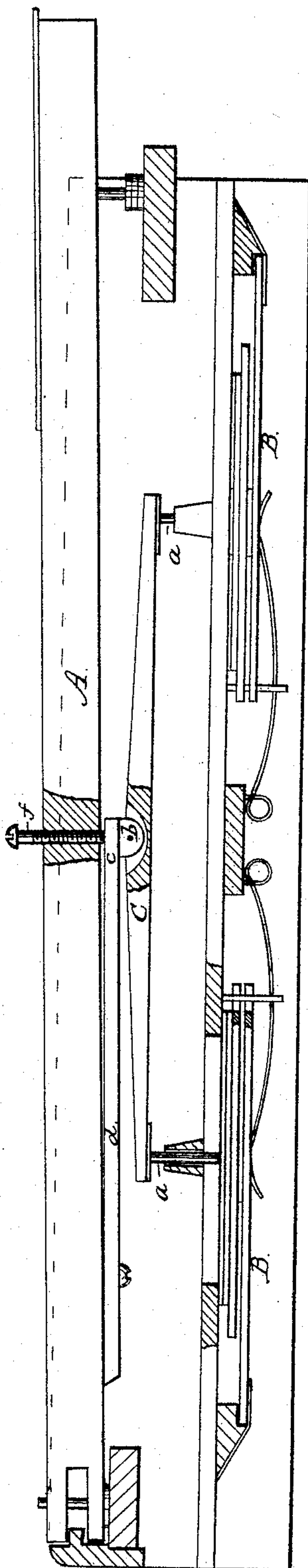


G. B. KELLY.  
Reed-Organ Actions.

No. 157,839.

Patented Dec. 15, 1874.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

GEORGE B. KELLY, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN REED-ORGAN ACTIONS.

Specification forming part of Letters Patent No. **157,839**, dated December 15, 1874; application filed October 7, 1874.

*To all whom it may concern:*

Be it known that I, GEORGE B. KELLY, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Reed-Organs, of which the following is a specification:

The object of this improvement is to secure, in the depression of a key, the simultaneous, even, and equal opening of two valves connected with it; and for this purpose the invention consists in the interposition, between the key and the two valves with which it is to be connected, of a lever or beam, which is hung to, and carried by, the key, and is connected to the said valves, and all in such a manner that, when the key is depressed, both valves will be opened simultaneously, evenly, and equally with each other, and similarly allowed to close as the key rises.

In the accompanying plate of drawings, the figure is a view in elevation along the length of a reed-organ key, and showing the two valve-lids and the interposed lever, in some parts in vertical section.

In the drawings, A represents a reed-organ key; and B, two valves, to which the key A is to be connected, so that, by a depression thereof, both valves will be opened. The arrangement of the key A, and also the valves B, is the same as ordinarily, and therefore requires no particular description herein. *a*, stems or tracker-pins, one to each valve B, for opening the same, as usual. At the upper end of the two stems *a* is located a horizontal lever

or beam, C, and this lever or beam, midway between its two ends, is hung upon a fulcrum, *b*, of the under side of the key. This lever or beam C is the interposed lever or beam composing this invention, and by and through it, when the key is depressed, obviously is secured a simultaneous, even, and equal opening of both valves B, and, similarly, a closing of both valves as the key rises.

For regulating the bearing of the lever C on the valve-stems *a*, instead of hanging the lever directly to the key, I hang it in the free end *c* of an arm, *d*, fixed at one end to the key, as shown, and provide a regulating-screw, *f*, to bear against the said free end *c*, for adjusting said arm end *d*, and consequently the distance of the fulcrum of lever or beam C, from the valves B, to secure the proper operation of the parts. This regulating feature may be dispensed with, but it is preferable to use it.

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

In a reed-organ, the lever or beam C, interposed between the key A and the two valves B B, substantially as described, whereby the said lever operates both valves simultaneously, as and for the purpose specified.

GEO. B. KELLY.

Witnesses:

EDWIN W. BROWN,  
WESLEY F. DINSMORE.