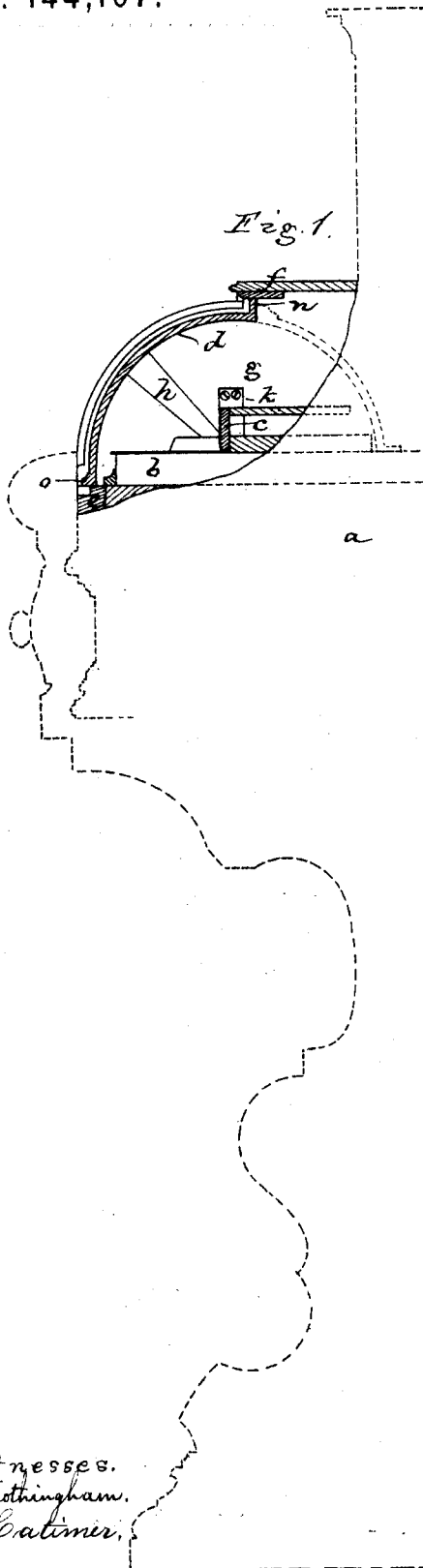


**W. O. TROWBRIDGE.**  
**Falls for Parlor-Organs.**

No. 144,167.

Patented Oct. 28, 1873.



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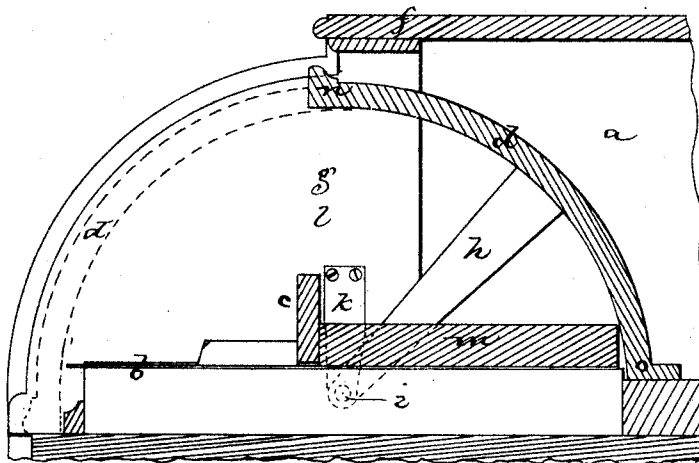
Inventor.  
William O. Trowbridge.  
By his Atty.  
Crosby & Gould.

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Fig. 2.



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L. H. Atkinson.

Inventor.  
William O. Trowbridge.  
By his Atty.  
Cross & Gould.

# UNITED STATES PATENT OFFICE.

WILLIAM O. TROWBRIDGE, OF NEWTON, ASSIGNOR TO MASON AND HAMLIN  
ORGAN COMPANY, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN FALLS FOR PARLOR-ORGANS.

Specification forming part of Letters Patent No. **144,167**, dated October 28, 1873; application filed  
September 25, 1873.

*To all whom it may concern:*

Be it known that I, WILLIAM O. TROWBRIDGE, of Newton, in the county of Middlesex and State of Massachusetts, have invented an Improved "Fall" for Parlor-Organs; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

The invention relates to the construction and arrangement of a new fall for parlor-organs. Instead of making the fall in the form of a hinged lid, to fold over upon the top of the instrument, I make it as a curved board, or as a quarter of a cylindrical tube, the ends of which are open, but are inclosed by the frame of the instrument, this quarter-tubular board or fall being fixed to arms pivoted in the axial line of the cylindrical surface, and being movable upon said pivotal centers in such manner as to swing over to the front of the keys to close the instrument, or over said keys and back and down into the case to open the instrument. My invention consists in a parlor-organ having the fall thus generally described.

The drawing represents a construction embodying my invention.

Figure 1 shows an instrument in elevation with the fall in section, the instrument being closed. Fig. 2 shows the fall in section, the instrument being open.

*a* denotes the frame, *b* one of the keys, *c* the name-board, the frame being built and the keys and name-board, as well the parts not seen, being constructed and arranged in the ordinary manner. *d* denotes the fall, made as

the quarter of a hollow cylinder or cylindrical tube, and of a length equal to, or a little greater than, the length of the bank of keys. The drop extends from the frame piece *e*, in front of the keys, to the top board or lid *f*, and opens at its opposite ends against the opposite frame piece *g*. At its opposite ends it is fixed to two arms, *h*, and these arms are jointed, as seen at *i*, to stationary metal hinge-plates *k*, the pivotal centers *i* being at the center of the sweep of the curve of the fall or drop board *d*. The arms *h* sustain the fall, and the latter swings upon the centers, shutting over the keys to close the instrument, as shown in Fig. 1; or is thrown back into the case to open the instrument, as seen in Fig. 2. When open, there is an open space, *l*, over the name-board, but a board, *m*, conceals the levers and the mechanism in the body of the instrument.

The whole arrangement is unique, simple, and practical, the fall being easily operated, and being free from mechanism tending to become easily disarranged.

The fall may be made otherwise than cylindrical; but its upper edge *n* and lower edge *o* must be equidistant from the pivotal centers *i* to form the same joint at the top *f*.

I claim—

A parlor-organ or similar instrument having a rigid curved fall, *d*, fixed to arms *h*, and pivoted to operate substantially as described.

Executed this 8th day of September, A. D. 1873.

W. O. TROWBRIDGE.

Witnesses:

FRANCIS GOULD,  
M. W. FROTHINGHAM.