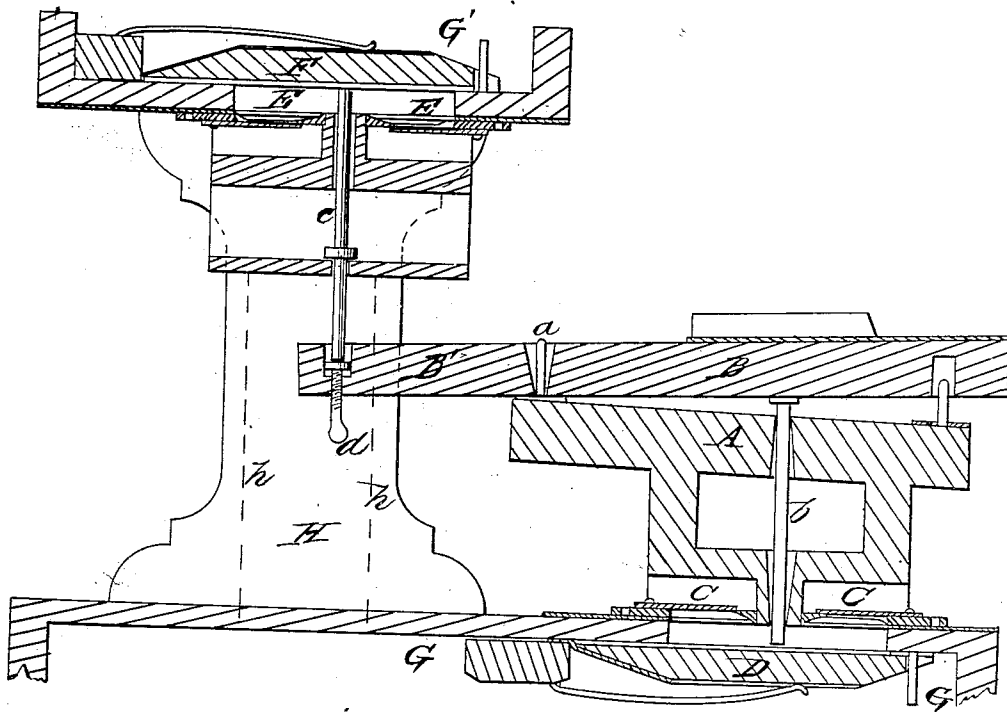


T. F. THORNTON.  
ORGAN MELODEON.

No. 13,959.

Patented Dec. 18, 1855.



# UNITED STATES PATENT OFFICE.

THOMAS F. THORNTON, OF BUFFALO, NEW YORK.

## ORGAN-MELODEON.

Specification of Letters Patent No. 13,959, dated December 18, 1855.

*To all whom it may concern:*

Be it known that I, THOMAS FOSTER THORNTON, of the city of Buffalo, in the county of Erie and State of New York, have  
5 invented a new and useful Improvement in Organ-Melodeons; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming  
10 part of this specification, which represents a transverse vertical section of the playing parts of an organ-melodeon with four sets of reeds constructed according to my invention.

My invention consists in providing a set  
15 of valves and one or more sets of reeds in the upper part of the instrument above and behind the fulcrum of the keys, in addition to the reeds and valves arranged in the usual way below and in front of the keys; and extending the keys in a backward direction  
20 from their fulcrum to operate by push-up pins on the said upper set of valves at the same time as they act by push-down pins on the set of valves below.

25 To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

A, is the key frame of the instrument.

B, is one of the keys; and *a*, is its fulcrum.

30 C, C, are two reeds of a double set both actuated by the one valve, D, which is arranged below them and is opened by the push down pin *b*, when the playing end of the key is depressed.

35 What I have thus far described is a common and well known arrangement of the parts of a melodeon except that the key B, is extended as indicated at B', some distance back beyond its fulcrum which is a part of  
40 my invention.

The other parts of my invention consist as follows: E, E, are two reeds of a double set arranged above the extended portion B', of the key.

F, is a valve above them and *c*, is a push- 45 up pin which opens the valve F, every time the extended portion B', of the key is raised by the depression of its playing end.

It will be seen that all of the action in rear of the fulcrum *a*, resembles the other 50 portion inverted.

A wind chamber or receiver G', is provided above the set of valves F, communicating with the wind chamber or receiver G, below the other set of valves G, and there is 55 at all times free communication between these chambers or receivers through chimneys A, of which there may be one at each end of the instrument. The interior of the chimney shown is represented by the dotted 60 lines *h, h*.

In order to adjust the push-up pins and push-down pins so that the valves D, and F, may be opened simultaneously by their respective keys, I provide every key with a 65 regulating screw *d*, upon which the push up pin *c*, rests and by which it may be elevated or depressed if necessary.

What I claim as my invention and desire to secure by Letters Patent, is— 70

Providing an additional set of valves, F, and one or more additional sets of reeds E, E, arranged as described in a position the reverse of the usual arrangement of valves and reeds and extending the keys backward 75 in rear of its fulcrum to actuate the additional set of valves through push up pins to play on the additional set or sets of reeds at the same time as they actuate the other sets of valves D, through the push down pins to 80 play the reeds C, C, which are below them, substantially as herein described.

THOS. F. THORNTON.

Witnesses:

CHAS. E. BACON,  
HIRAM WOODBURY.