

O. N. Frary,
Organ Swell,
No 11,479, *Patented Aug. 8, 1854.*

Fig 1.

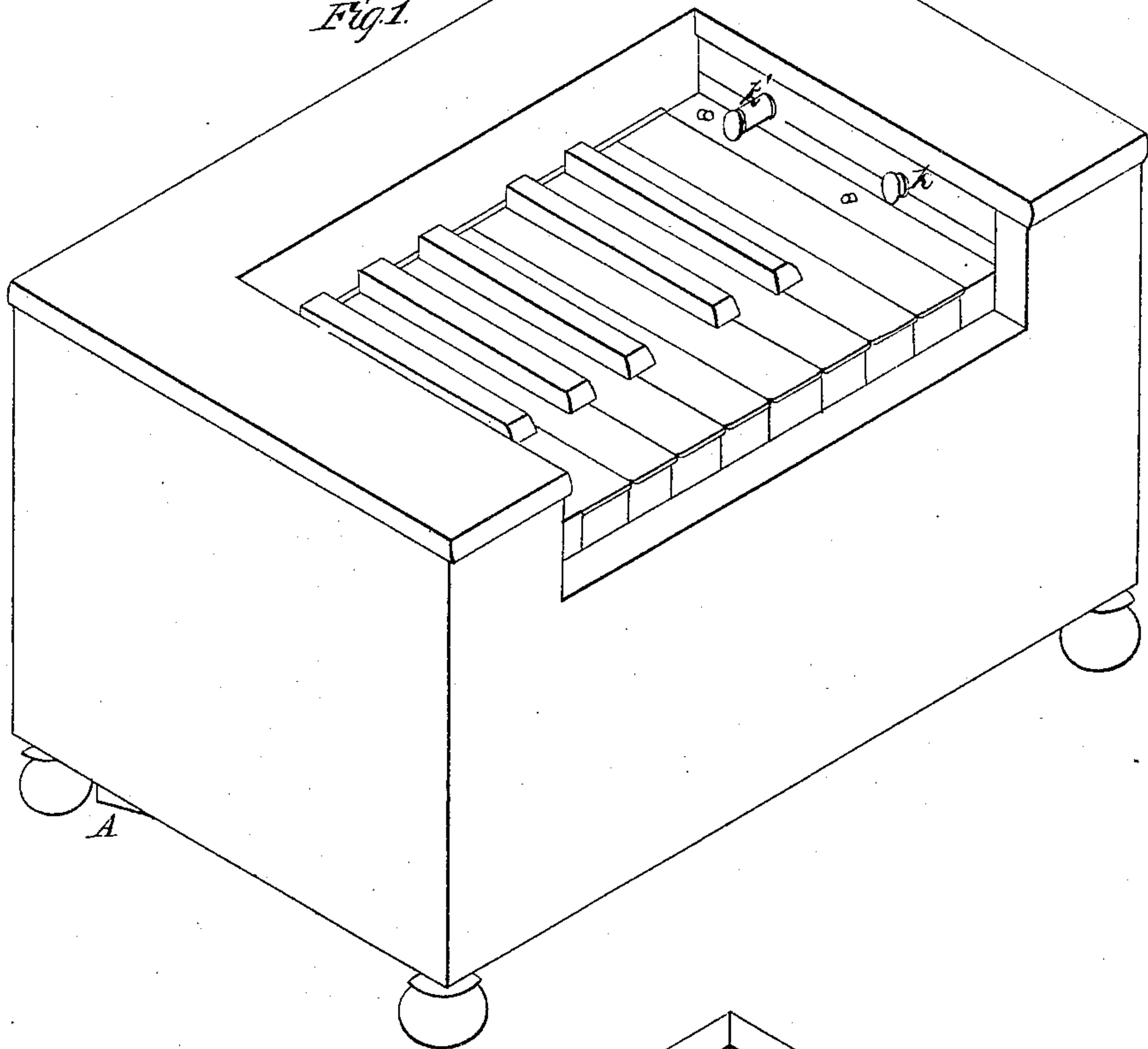
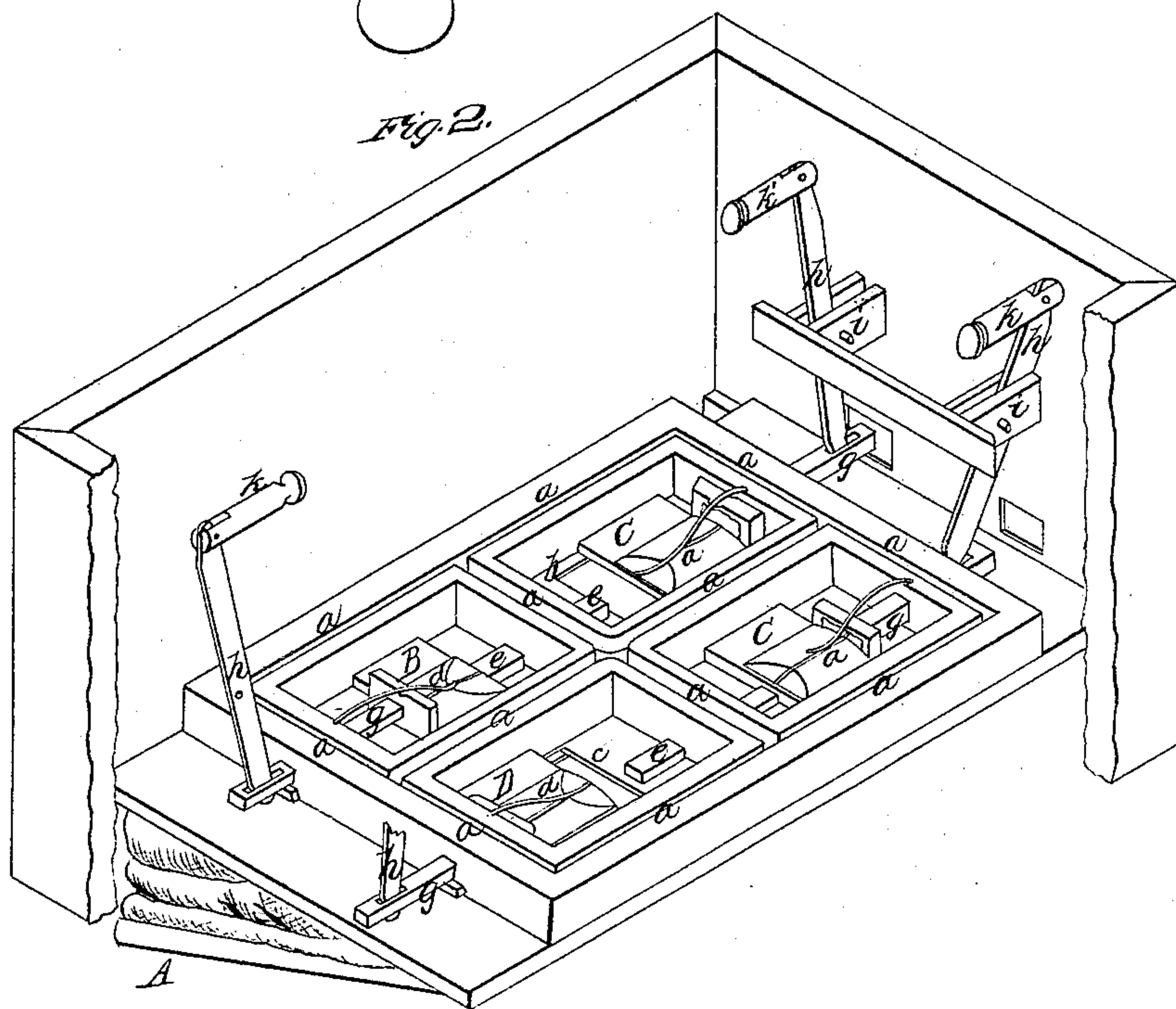


Fig 2.



UNITED STATES PATENT OFFICE.

ORANGE N. FRARY, OF ANSONIA, CONNECTICUT.

MELODEON.

Specification of Letters Patent No. 11,479, dated August 8, 1854.

To all whom it may concern:

Be it known that I, ORANGE N. FRARY, of Ansonia, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Melodeons; and I do hereby declare that the following is a full, clear, and exact description of the construction, character, and operation of the same, reference being had to the accompanying drawings, which make a part of this specification, in which—

Figure 1, is a perspective view of a melodeon in miniature, showing two of the stops, Fig. 2, is a perspective view of the internal parts of the same, showing the structure and arrangement of the improved parts.

My improvement consists in making the melodeon with two sets of reeds, or "two stops," to be played by one bank, or set, of keys, while I am enabled to play both sets of reeds throughout, at the same time; or, both sets in either half of the key board, with either set single in the other half; or either set, throughout, alone; or, the front set in either half, with the back set in the other half, at pleasure, by simply varying the stops, as their positions indicate; and to effect all this by means of an air tight wind chest, between the bellows and the reed board, divided into four equal parts, and a valve in each separate part, in the partition between the wind chest and bellows.

I make the melodeon in any of the usual ways, with two sets of reeds, located in the common way, (as to the other parts of the melodeon,) and one set of keys, in the usual form, as shown in Fig. 1, and I make the bellows in the usual way, as shown at A, Fig. 2.

Under the reeds, I fit an air-tight wind chest, divided into four parts, the lower part of which is shown in Fig. 2, and the upper part fits air-tight upon it, having tongues to fit into all the spaces, *a, a*, &c., Fig. 2, to prevent leakage. In the lower part, in each division, I fit a valve, as seen at B, C, D, and E, Fig. 2, which, when desired, close the passages to the bellows, as seen in B, and E, or leave them open, as seen in C, and D,

leaving a free passage to the bellows, or vice versa, as shown at *b*, and *c*. These valves are pressed down by springs as shown at *d, d*, &c., and in closing are gaged by blocks, *e, e*, &c., or otherwise. These valves have bars, (with mortises,) attached to them, as seen at *g, g*, &c., and are opened, and closed, by means of levers, *h, h*, &c., working on fulcrum pins, as at *i, i*, and when the melodeon is in order for use, the levers are worked by the jointed parts, or "stops," *k, k, k*, and *k'*, which will then appear as shown in Fig. 1, where the back one, *k'*, indicates that the valve is open, as shown at C, Fig. 2, and the front one, *k*, Fig. 1, indicates that the valve is shut, as at E, Fig. 2.

Having made, and fitted, the several parts, as described, if I wish to play on the two sets of reeds throughout, I draw out all the stops to the position shown at, *k'*, Fig. 1, when all the valves will be open, as shown at C, and D, Fig. 2. But if I wish to play on less than the whole, I push in one, or more, of the stops to the position shown at *k*, Fig. 1, when that one, or more of the valves, will be closed, as shown at B, and E, Fig. 2, so that B, and C, or D, and E, or B, and E, or D, and C, may be played together at pleasure, as also any three of them, without the trouble or expense of a double key board, or any other of the complicated attachments of the double reeded melodeon, as heretofore used, which are so liable to get out of order, and difficult to repair.

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

The method of using two sets of reeds in a melodeon with one set of keys, in such manner as to combine any two, three, or all four, of the parts, (each part containing one half of a set of reeds,) at pleasure, by the aid of an air-tight wind chest, and four valves, when the whole is constructed, arranged, and made to operate, substantially, as herein described.

ORANGE N. FRARY.

Witnesses:

I. W. STANCLIFF,
R. FITZGERALD.