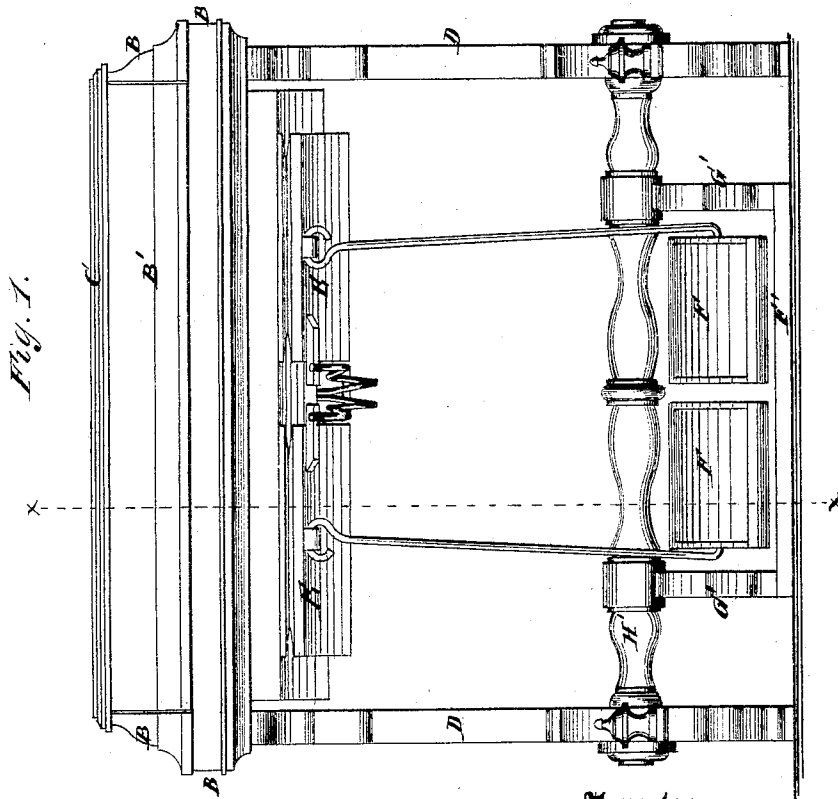
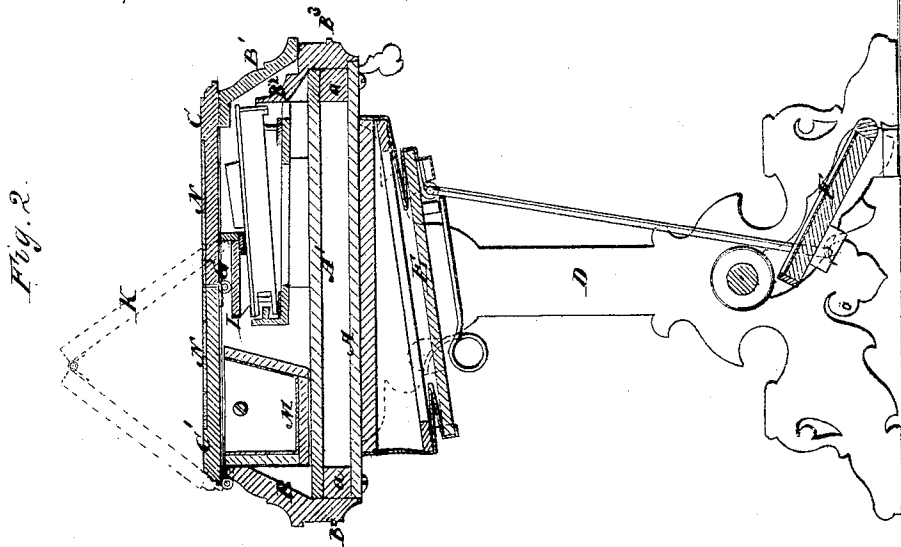


GEORGE WOODS.
Improvement in Organs.

No. 125,778.

Patented April 16, 1872.



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UNITED STATES PATENT OFFICE.

GEORGE WOODS, OF CAMBRIDGEPORT, MASSACHUSETTS.

IMPROVEMENT IN ORGANS.

Specification forming part of Letters Patent No. 125,778, dated April 16, 1872.

Specification describing a new and Improved Organette, invented by GEORGE WOODS, of Cambridgeport, in the county of Middlesex and State of Massachusetts.

My invention consists, first, of a peculiar form of the case, which is very simply and economically formed of the reed-board for the bottom, with moldings for the sides, and a cover, the instrument not being inclosed below the reed-board, the said moldings forming such inclines that, while I have a large reed-board, and also a large sound-board, I have a small top surface, suitable for a card-table and the like, on which I have arranged a chess-board. The said case is, by this construction, adapted for the arrangement of the stops in a row along the front of it under the keys. Also, the invention consists of an arrangement of the blow-pedals and their supports in connection with the stand or frame supporting the case, two pedals being used to equalize the action of the wind and to divide the labor between the two feet. The invention also consists of a box arranged in the vacant space behind the keys and below the cover, for storing away chess-men when not in use; and the invention also consists of a peculiar construction of the valves, calculated to improve their action.

Figure 1 is a front elevation of my improved organette. Fig. 2 is a transverse section of the same on the line *xx* of Fig. 1. Fig. 3 is a top view of an enlarged section with the keys removed, except one; and Fig. 4 is a transverse section of Fig. 3 on the line *xx*, also showing the arrangement of the stops and the improved construction of the keys.

Similar letters of reference indicate corresponding parts.

A is the reed-board, forming the bottom of the case; B B, the moldings, forming the rear side and ends; B¹ B² B³, the front side, B¹ being attached to the cover and shutting down over the upper part of B²; and C C' is the cover. The moldings are high to provide space for the action, and slope inward considerably, as shown, so that, while the sounding-board A' is larger than would be desired for an ordinary game-table, the top is reduced to the size required and a symmetrical appearance is preserved. The large sounding-board is highly

desirable, for it gives a peculiarly fine tone not attainable with small ones. The construction is simplified and cheapened by screwing the sounding-board, strips *a*, and the reed-board together, as shown, and by gluing the moldings B B and B² B³ to them, as shown. The part B², rising up in front of the key-board, affords an excellent place for arranging the stops D' in a row where they will be most convenient and have room for as many as required. It also affords a cheaper and simpler arrangement, the rods extending directly to levers E, which work the stop-valves, as shown. The reed-board is arranged on the standards D, one at each end, and all below is not inclosed; and on the bottom I apply two blowers, E, with a separate pedal, F, for each. These pedals are pivoted at the lower ends to a bar, F', supported level with the bottom of the standards by brackets G', projecting forward and downward from the rod H', connecting the two end parts of the frame. G represents the division between the two parts of the cover and the hinges by which they are jointed together, whereby, when the cover is lifted, the front edge may be rested on the top of the instrument, and the part C of said cover supported thereby in the oblique position indicated by the dotted lines K, to be used as a music-desk. I prefer to adjust the said cover so that the molding B will drop down behind the bar L, between the end moldings, so that the edge of part C of the cover, which is longer than molding B¹, will rest on the top of said moldings. M is the box, which I place in the space behind the keys, for holding chess-men or other instruments employed in the games played upon the cover; or it may be utilized for a work-box of any kind. N represents the chess-board on the top of the case. The long strips *b* of the valve are considerably thinner at the end which is hinged to the support *e*, and for a suitable distance therefrom, as indicated at *d*, for springing readily, and a strong piece, *f*, is applied to it under the post *g*, with a thin piece, *i*, of leather under each end, and to apply the pressure at two points equidistant from the end of the spring *h*, all of which is calculated to insure the closing of the valve over the port with equal pressure at both ends. I propose to hinge these valves to a long strip

of wood, having the lower side rabbeted at one corner and beveled at the other by a strip of cloth or flexible material, K, glued on the end of valves and on the strips, as shown, which is a very inexpensive arrangement.

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

1. The combination of the reed-board A, sides B B¹ B² B³, and top, the said devices being arranged to form a case with a large bottom and small top, substantially as specified.

2. The open case below the reed-board, having two blowers and two blow-pedals, the said blow-pedals being hinged to the bar F', and the latter being supported by the brackets G' and rod H', all substantially as specified.

3. The valve made as described, with back end so thin that it will yield to air-pressure,

and with its springs resting on two leather bearings, as set forth.

4. The box M arranged in the space behind the keys, substantially as specified.

5. An organette-case, constructed and arranged, as herein described, for adapting the top for a game-table, and the said top having a chess-board formed thereon, substantially as specified.

6. The long piece *b* of the valve, constructed so as to spring in the part *d* adjoining the hinge, and having the piece *f* arranged between it and the spring *h*, in the manner described, for equalizing its action, all substantially as specified.

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