A. W. Wilcox.

Reed Organ.

No. 86,335. Patented Jan. 26, 1869.

Fig: 1.

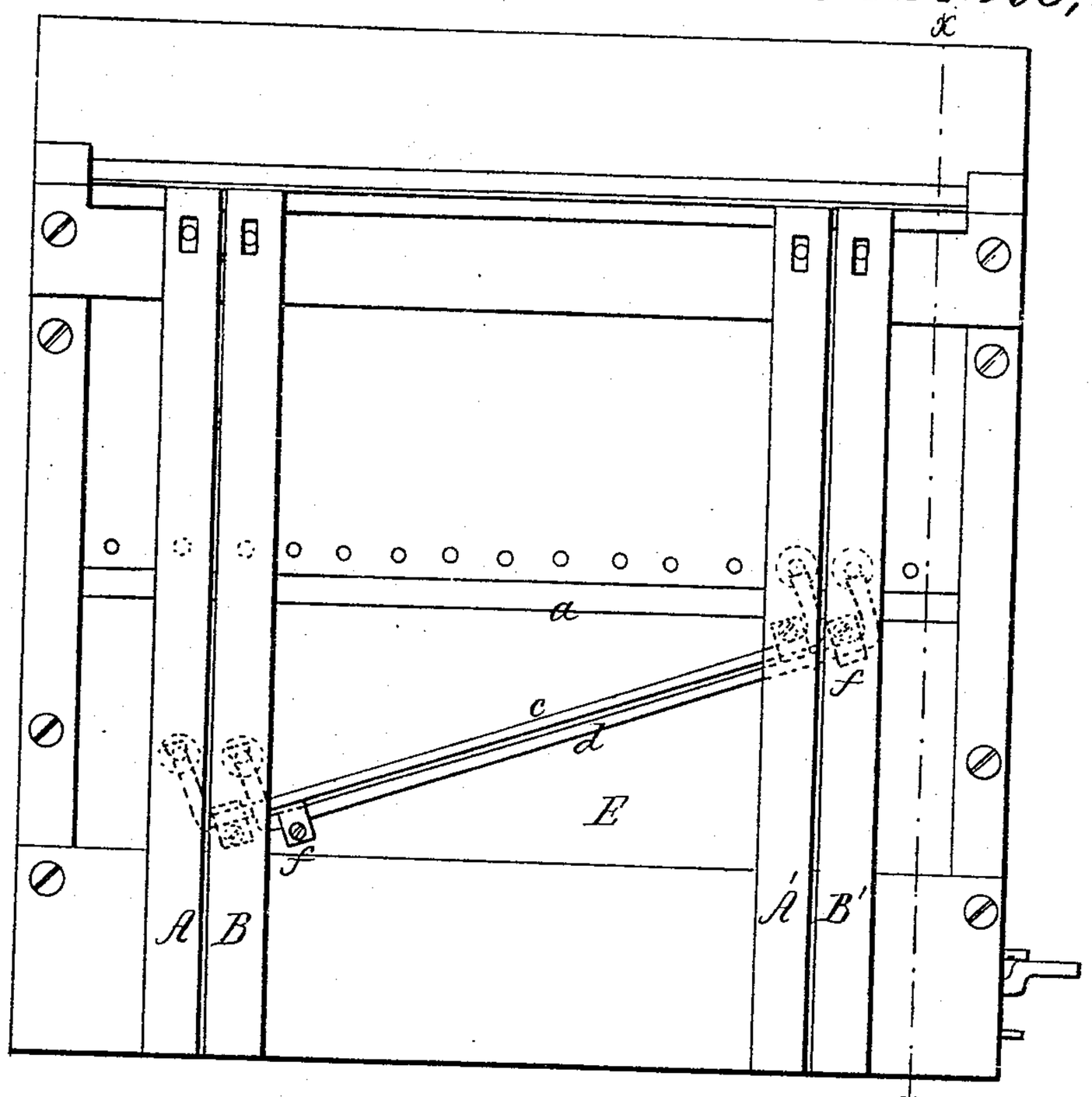


Fig: 2.

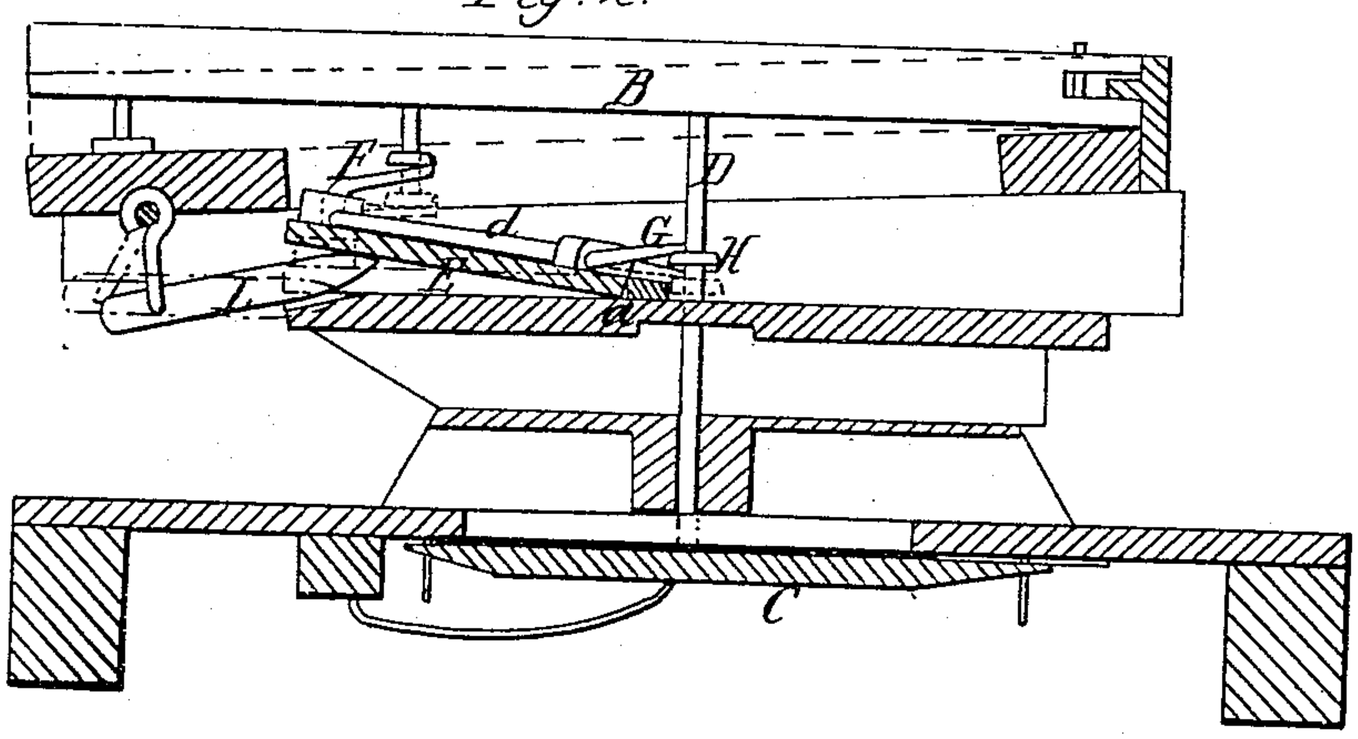
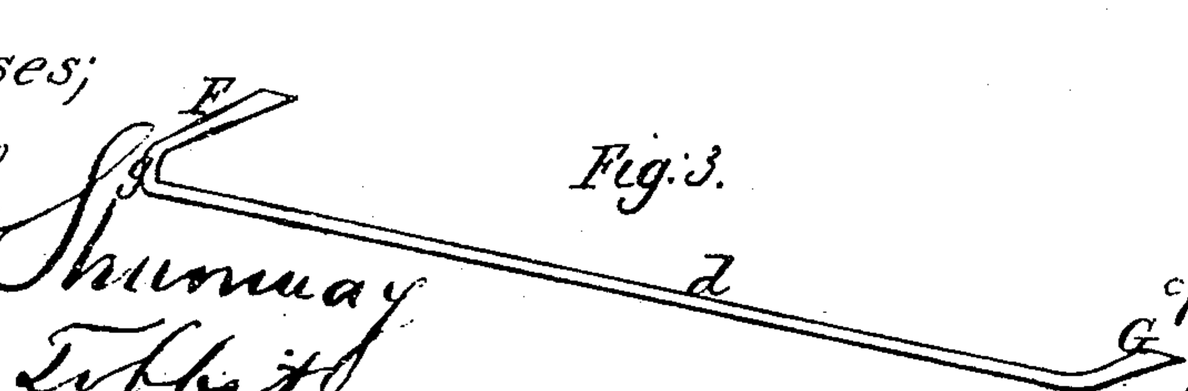


Fig: 3.



Witnesses;

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A. W. WILCOX, OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 86,335, *dated January* 26, 1869.

IMPROVEMENT IN REED-ORGANS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, A. W. WILCOX, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Reed-Organs; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a top view, showing two of the keys in one octave, and the two corresponding keys in the next octave;

Figure 2, a transverse sectional view on line *x x;* and in

Figure 3, the roller detached.

This invention relates to an improvement in reed-organs and similar instruments, the object being to couple the keys in one octave with the corresponding valves of the next octave; and to this end,

The invention consists in constructing the roller with two arms, at right angles to the roller, the one which is operated by the keys of one octave turned up and forward, so as to pass over the next roller.

The invention also consists in the arrangement of the couplers upon a table, so that all may be adjusted to couple by the raising or lowering of the said table.

In order to the clear understanding of my invention, I will fully describe the same, as illustrated in the accompanying drawings.

A B are two keys in one octave, and A′ B′ corresponding keys in the next octave, arranged to operate their respective valves C by connection thereto, through the rod D. Depressing the key, opens the valve in the usual manner.

It is desirable, at times, to couple the keys in one octave, so as to operate the valves of the next octave simultaneously with their own valves. For this purpose, I arrange a table, E, hinged at *a*, so that the front edge may be raised or lowered, as denoted in fig. 2.

Upon the said plate D, I arrange rollers *d c*, in bearings *f*, one of the said rollers for each key, and all independent, one of the other.

Beneath the key I bend an arm, F, at right angles to the roller, it being first turned up, as at *g*, fig. 3. so as to pass over the nextroller in front, as seen in broken lines beneath the keys A B, seen in fig. 1, and also seen in fig. 3.

At the other end of the roller, I form another arm, G, to depress the valve C, by connecting with the rod D at H. Therefore, when the table E is raised, as seen in fig. 2, the respective keys will strike upon the arm F, turning the roller forward or down, and depressing the corresponding valve in the next octave, as seen in blue, fig. 2.

When such coupling is not desired, depress the table E in any convenient manner, here represented as by a wedge, L, which is placed thereunder to raise the table, or drawn out from under the table, which will allow the table to fall, as denoted in red.

By this construction, I am enabled to make the arms at right angles to the roller, thereby causing the action to be free and easy, and all the rollers to be placed in close proximity to each other, and by the arrangement of the several rollers upon the same table E, I make the adjustment or connection extremely simple.

I do not wish to be understood as broadly claiming an arrangement for coupling the keys of one octave, so as to operate the valves of the next; but

What I do claim, and desire to secure by Letters Patent, is—

1. The roller, with its two arms, F and G, parallel with each other, and at right angles to the roller, and when the said arm F is bent so as to pass over the rollers, substantially as herein set forth.

2. The combination and arrangement of the coupling-rollers for reed-organs and similar instruments, upon a table, E, arranged so as to bring the several rollers into connection with their respective keys and valves, substantially in the manner herein set forth.

A. W. WILCOX.

Witnesses:

A. J. TIBBITS,
J. H. SHUMWAY.