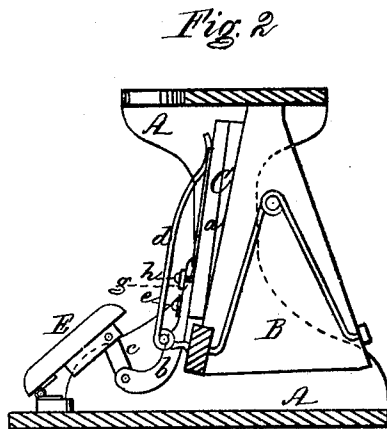
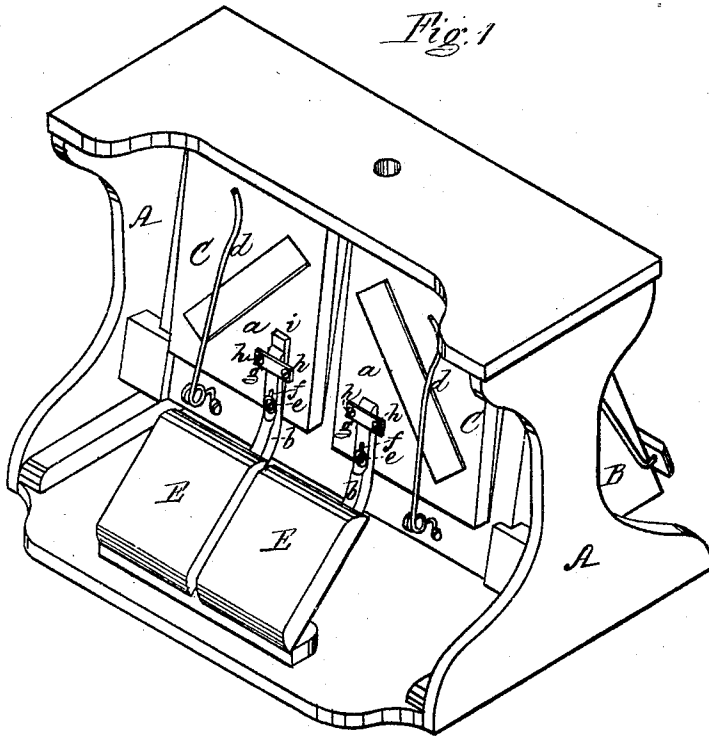


S. J. CROCKETT.

ORGAN-BELLOWS AND TREADLE CONNECTIONS.

No. 171,923.

Patented Jan. 11, 1876.



Witnesses;
W. J. Cambridge
Chas. E. Griffin

Inventor,
Samuel J. Crockett
per *Richard S. Starnes* Atty.

UNITED STATES PATENT OFFICE

SAMUEL J. CROCKETT, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE
NEW ENGLAND ORGAN COMPANY, OF SAME PLACE.

IMPROVEMENT IN ORGAN-BELLOWS AND TREADLE-CONNECTIONS.

Specification forming part of Letters Patent No. **171,923**, dated January 11, 1876; application filed
November 3, 1875.

To all whom it may concern:

Be it known that I, SAMUEL J. CROCKETT, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Reed-Organs and Melodeons, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a portion of a reed-organ having my improvement applied thereto. Fig. 2 is a side elevation of the same.

The exhaust-bellows of reed-organs have heretofore been operated by means of cords or straps passing over pulleys and connected with the pedals. This construction is, however, objectionable, for the reason that the cords or straps are liable to stretch and break, and much inconvenience often results therefrom. My invention has for its object to overcome this difficulty, and consists in providing the exhaust-bellows with a lever, the lower end of which is connected to the pedal by a link, by which construction I am enabled to dispense with the cords, straps, and pulleys heretofore used, and obtain a leverage whereby the bellows can be operated with less exertion, and opened to its full extent with less motion of the foot, thereby rendering it easier and less fatiguing to maintain the requisite supply of air when the "full organ" is being played.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A represents a portion of the frame or casing of a reed-organ, within which is secured the main bellows B for supplying air to the reeds, this bellows being operated by two exhaust-bellows, C C, the movable board or exhauster *a* of each of which has secured to its lower end an arm or lever, *b*, which extends down nearly to the bottom of the case A, and is curved at its lower end so as to project under the pedal E, to which it is connected by means of a link, *c*, pivoted to the lever and to the under side of the pedal. The position of the lower end of the lever *b* is such as to cause the connecting-link *c* to be inclined, as shown in Fig. 2, so

that when the pedal is depressed the lower end of the lever will be pushed backward to move the board or exhauster *a* of the bellows against the resistance of its spring *d*, by which it is returned to its original position when the pressure on the pedal is relieved: and by this construction a leverage is obtained by which the bellows can be opened to its full extent with much less movement of the pedal than is necessary where cords or straps are employed for connecting the bellows with the pedal, as heretofore, while the bellows can be operated with much less exertion than formerly, thus enabling the performer to maintain the requisite supply of air with less fatigue, especially when the full organ is being played.

Furthermore, my improved connection is noiseless in its action, and is not liable to breakage. Each lever *b* is secured to its bellows C by a screw *e* passing through a slot, *f*, the upper end of the lever being confined in place by a plate, *g*, and screws *h*; these fastenings allowing of the vertical adjustment of the lever in order to regulate the distance which it extends below the point where the board *a* is hinged; and by means of a wedge, *i*, introduced between the end of the lever and the board *a*, either above or below the screw *e*, or other suitable device, the lower end of the lever, to which the link *c* is pivoted, may be carried forward or back, as desired, and by means of these adjustments the leverage may be changed in order to equalize the action of the pedals or vary the power required to operate them.

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

1. In combination with the pedal E, bellows C, and the exhauster, hinged at its lower edge, the link *c*, and lever *b* secured to the front of the exhauster, substantially as described.

2. The exhauster of an organ-bellows provided with the lever *b*, made adjustable thereon, substantially as set forth.

Witness my hand this 30th day of October, A. D. 1875.

SAML. J. CROCKETT.

In presence of—

P. E. TESCHEMACHER,
W. J. CAMBRIDGE.