

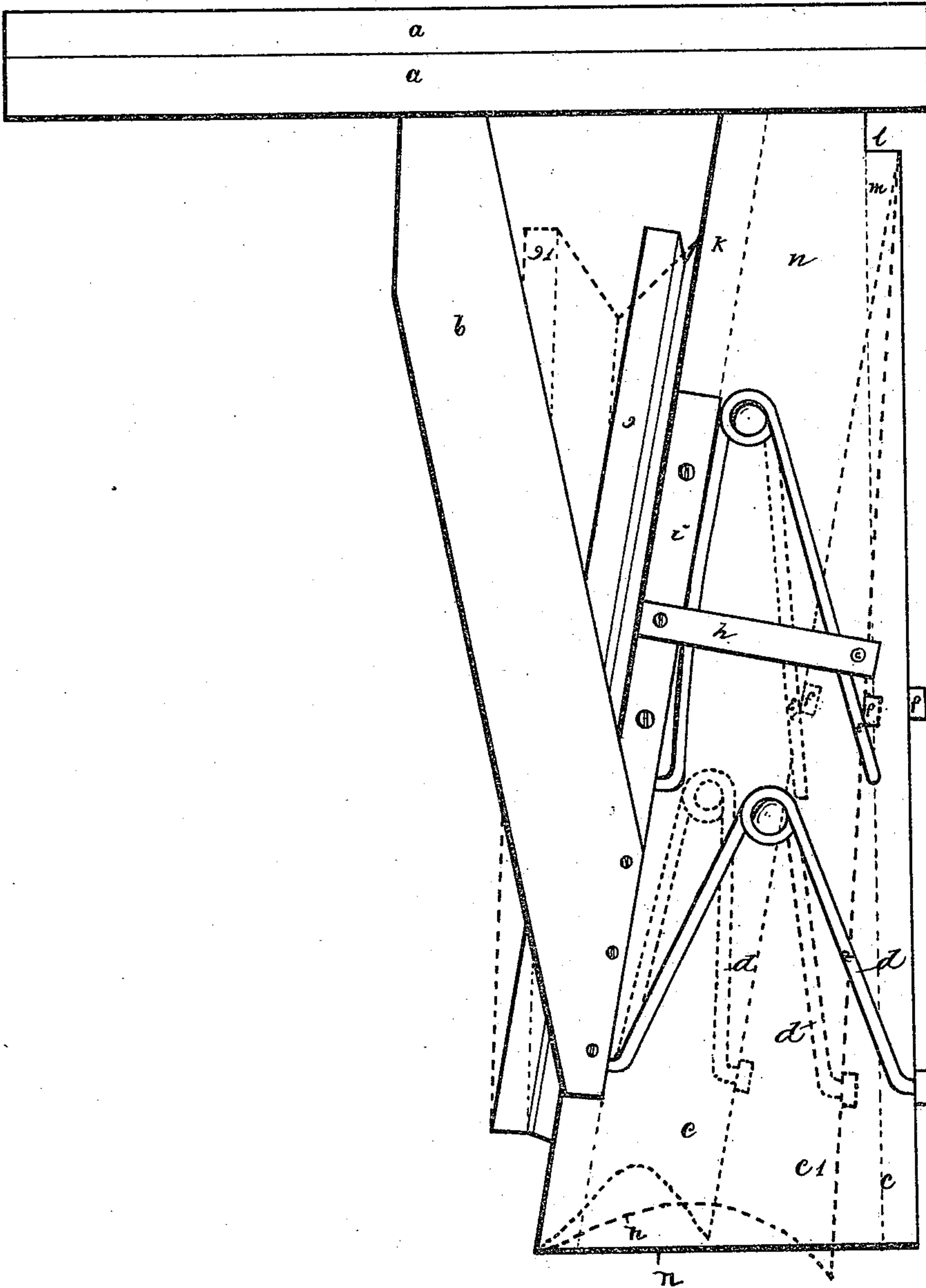
(No Model.)

C. FOGELBERG.

BELLOWS ACTION FOR REED ORGANS.

No. 355,985.

Patented Jan. 11, 1887.



Witnesses

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# UNITED STATES PATENT OFFICE.

CARL FOGELBERG, OF ERIE, PENNSYLVANIA.

## BELLOWS-ACTION FOR REED-ORGANS.

SPECIFICATION forming part of Letters Patent No. 355,985, dated January 11, 1887.

Application filed March 25, 1886. Serial No. 196,436. (No model.)

*To all whom it may concern:*

Be it known that I, CARL FOGELBERG, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Bellows-Actions for Reed-Organs; and I do hereby declare the following to be such a full, clear, and exact description thereof as will enable others skilled in the art to which it appertains to make and use my invention.

My invention relates to bellows-actions for reed-organs; and the object of the invention is to increase the induction of air through the reeds, and thereby improve the tone of the organ.

The invention consists in the details of construction and combinations of parts herein-after fully described, and pointed out in the claims.

In the single figure is represented an end elevation of an organ-bellows embodying my improvements.

A represents the organ-action board, depending from which is the bellows-brace B.

C represents the bellows, which consists of the back piece, *k*, secured to the board A at its upper end, and depending therefrom, and braced by the beam *b*, and the bellows-board *m*, the said back piece and board being connected on their sides and at their lower ends by flexible flaps *n*. The bellows board *m* is provided at its upper end with a flexible hinge-connection, thereby enabling the bellows to be compressed.

J represents the feed, arranged upon the outer side of the back piece, *k*, said feed having communication with the bellows, and operating as usual.

*d* represents the bellows-spring, which, as usual, consists of a single piece of material bent to form a loop, from which extend two diverging arms or members, one of which is connected with the back board and the other with the bellows-board, and designed to hold them apart.

Secured to the back board, *k*, is a strip, *i*, from which projects an arm, *h*, having near its inner end an inwardly-extending pin, G.

E represents an auxiliary or supplemental spring of similar construction to the one already described, and secured to the back

board, *k*, at one end, and having its other end bearing against the pin *g*, which limits its movement.

Projecting from the bellows board M is a block, *f*, which, when the bellows is compressed, is adapted to be brought into contact with the free end or arm of the spring E.

The operation is as follows: When the feeder J is operated to bring it to the position shown in dotted lines at J', a quantity of air is exhausted from the bellows and the latter brought to the position shown in dotted lines at C', and the block *f* bearing against the free end of the auxiliary spring. By repeating the movement of the feeder the air is further exhausted from the bellows, and the latter occupies the position shown at C', the block *f* carrying the supplemental or auxiliary spring E to the position shown at *f'*. This operation can be continued until the bellows are exhausted. By providing the supplemental or auxiliary spring the air is effectually drawn through the reeds and the bellows-pressure increased, and by its use a stronger air-current is obtained, with an improved resulting tone from the organ.

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

1. In a bellows-action, the combination, with the bellows and with the bellows-spring, of a supplemental spring having one of its ends free, and a block upon the bellows, as set forth.

2. The combination, with the bellows, of an arm carrying a projecting pin, a spring secured at one end and bearing against said pin at its other end, and a block carried by the bellows, as set forth.

3. The combination, with the bellows, of the strip attached to the back board thereof, the arm extending inwardly from said strip, the pin projecting from the arm, the spring secured to the back board at one end and bearing against the pin at its other end, and the block carried by the bellows, as set forth.

In testimony whereof I have hereto affixed my signature in the presence of two witnesses.

CARL FOGELBERG.

Witnesses:

DUANE L. RICE,  
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