

(No Model.)

H. A. HOVENDEN.

PIPE ATTACHMENT FOR REED ORGANS.

No. 248,317.

Patented Oct. 18, 1881.

Fig. 1.

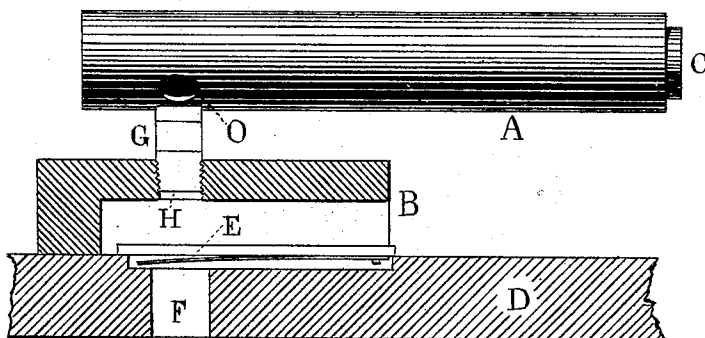
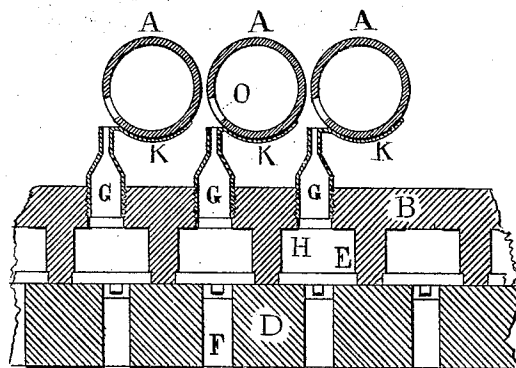


Fig. 2.



Witnesses:
H. W. Wells.
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UNITED STATES PATENT OFFICE.

HIRAM A. HOVENDEN, OF TRIVOLI, ILLINOIS.

PIPE ATTACHMENT FOR REED-ORGANS.

SPECIFICATION forming part of Letters Patent No. 248,317, dated October 18, 1881.

Application filed April 8, 1881. (No model.)

To all whom it may concern :

Be it known that I, HIRAM A. HOVENDEN, of Trivoli, in the county of Peoria, in the State of Illinois, have invented a Flute Attachment for Reed-Organs; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a side view of flute attachment; Fig. 2, a cross-section at *x*.

D represents the upper board of the bellows of the organ, which is constructed to force the air out through the aperture F against the reed E, instead of, as is customary, to draw the air in through said opening, and thereby cause the reed E to vibrate. It is, of course, also necessary to reverse the reed E to adapt it for the new direction from which the air is coming.

Through the top of the reed-board B, I make the opening H, exactly over the aperture F, and into said opening H insert and secure the connecting-pipe G. This connecting-pipe G is hollow, and terminates, at its upper extremity, in an elongated slit, as shown in Fig. 2. Extending sidewise from this connecting-pipe G are one or more arms, K, to which the flute A is secured.

The flute A is closed and tuned at its end by the plug C, and it must be tuned to the key of the reed E beneath it, for I have as many flute attachments A G as there are reeds in the reed-board, extending from the lower alto notes up to the higher soprano. By the pressure of the finger upon the key of the key-board, air is allowed to rush through the aperture F by the reed E, setting the same in vibration, up through the opening H and connecting-pipe G, until, by impinging against the edge of the opening O of the flute A, that, also, is made to give forth a musical note with the reed E beneath it.

What I claim as my invention, and for which I desire Letters Patent, is as follows, to wit:

The horizontal flute-pipe A, with connecting-pipe G and arms K, arranged as described, in combination with the reed-board B of a reed-organ, substantially as and for the purpose specified.

In testimony that I claim the foregoing invention I have hereunto set my hand this 28th day of March, 1881.

HIRAM A. HOVENDEN.

Witnesses:

J. M. MORSE,
F. W. SCHNEIDER.