

A. J. SCHANTZ.  
VALVE FOR ORGAN BELLOWS.  
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1,248,926.

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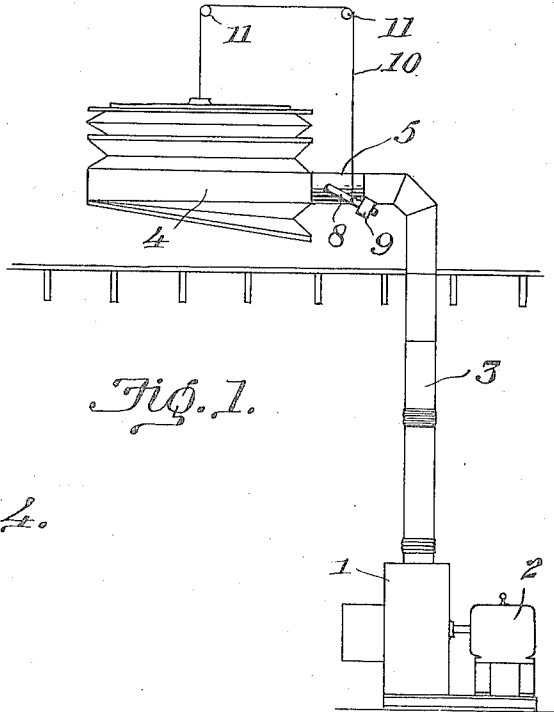


Fig. 1.

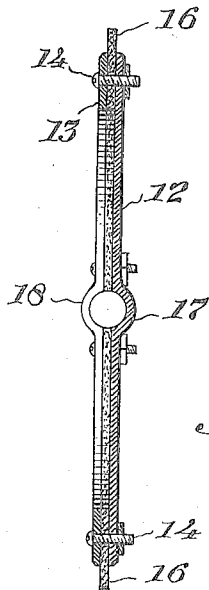


Fig. 4.

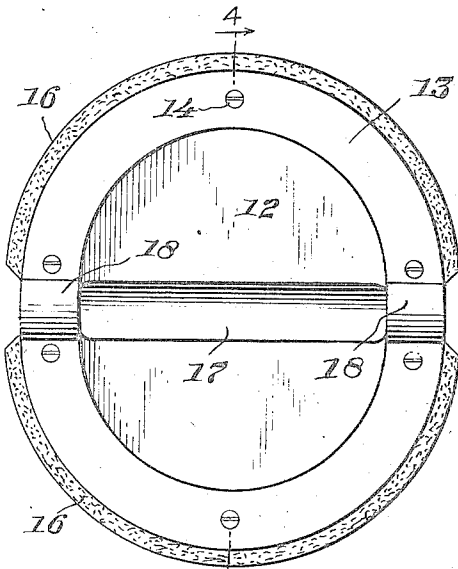


Fig. 3.

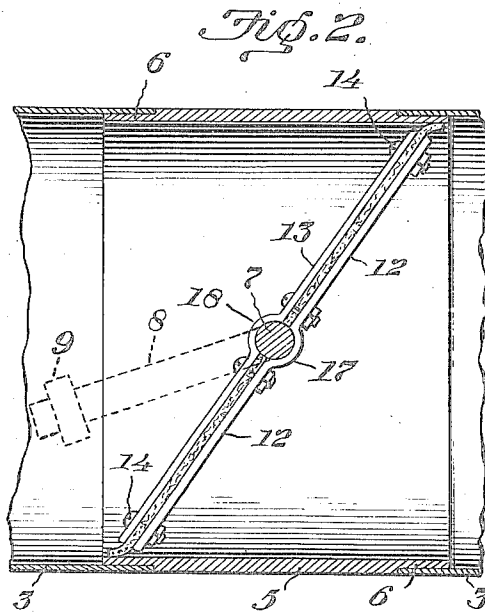


Fig. 2.

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# UNITED STATES PATENT OFFICE.

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## VALVE FOR ORGAN-BELLOWS.

1,248,926.

Specification of Letters Patent.

Patented Dec. 4, 1917.

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### *To all whom it may concern:*

Be it known that I, ABRAHAM J. SCHANTZ, a citizen of the United States, residing at Orrville, in the county of Wayne and State of Ohio, have invented a new and useful Valve for Organ-Bellows, of which the following is a specification.

My invention relates primarily to air valves and has more especial reference to a type of air valve adapted for use in controlling the flow of fluid through air tubes used in connection with organ blowers.

The object of the invention is to produce an air valve which may be easily and readily applied to a fluid pipe and which may be operated easily and noiselessly.

A further object is to provide an air valve of this character which will be positive and effective in its closing movement.

With these objects in view the invention consists in the novel construction and arrangement of parts, hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claim, it being understood that various changes in the form, proportions, size and minor details of construction may be made within the scope of the appended claim, without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings:

Figure 1 is a view of an organ blower and bellows, showing my improved air valve applied thereto.

Fig. 2 is a longitudinal section through the valve.

Fig. 3 is a detached view of the same.

Fig. 4 is a section on line 4-4, Fig. 3.

Similar numerals of reference indicate corresponding parts throughout the several figures of the drawings.

The present invention is, while obviously applicable to many uses, primarily designed for use in connection with organ blowers and bellows, where large volumes of air are forced through a pipe, in the manner illustrated in Fig. 1. It is necessary, in such a device, to provide means for automatically opening and closing the tube as the bellows is emptied and filled with the air from the blower. It is essential to also provide for effectively and positively closing the tube when the bellows is filled and at the same time to provide a device which will be noise-

less in its operation in order not to interfere with the operation of the organ.

Referring more especially to the construction illustrated in the accompanying drawings, the numeral 1 indicates an organ blower of any usual and well known construction which is operated by means of the usual motor 2, an air tube 3, preferably of sheet metal, connecting the blower with the ordinary organ bellows 4, which may be of any usual and well known construction. My improved air valve is located in this air tube intermediate the blower and the bellows and comprises the cylinder 5, within which the movable vane is pivoted, said cylinder being preferably provided with the reduced ends 6 arranged to receive the extremities of the tube 3.

Journaled transversely through the center of the cylinder 5 is a shaft 7 upon which shaft is fixedly mounted the movable vane, which will be hereinafter described. To the outer extremity of the shaft 7 is fixedly attached a lever 8 having a small weight 9 located near its free extremity. A suitable cord or other flexible member 10 is connected to the member 8 and passes up over the pulleys 11 and downwardly where it is connected to the top of the bellows 4.

The movable vane comprises the elliptical plate 12 and the elliptical frame member 13, which is secured to said plate by means of a plurality of bolts 14 or their equivalents, a strip of felt or other suitable insulating material 16 being clamped between said plate and frame member. A semi-cylindrical indented portion 17 is provided transversely across the elliptical plate 12 and similar indented portions 18 are provided in the frame 13, these being for the purpose of receiving the shaft 7 to which the vane is fixedly connected by clamping the elliptical plate and frame member together upon said vane. The felt strip 16 extends beyond the periphery of the plate 12 and frame 13 and is arranged to contact with the interior of the cylinder 5 when the valve is in the closed position.

When the blower is operated the bellows is inflated to its highest point when the weight 9 upon the arm 8 will rock the shaft 7 into a position to close the air valve, the vane being moved into the position best illustrated in Fig. 2 of the drawings, the felt strip 16 contacting with the interior of the cylin-

der 5, thus shutting off all air from the blower to the bellows. After the keys and stops of the organ are operated the bellows will close, thus drawing up the cord 10 which will raise 5 the arm 8. and open the valve enough to supply the bellows with sufficient air and as more stops are operated upon the organ the valve will be accordingly opened as the demand requires, the valve being again closed 10 when the stops are pushed back, thus properly regulating the wind pressure of the organ under all conditions of playing. The movement of the valve will be noiseless as the felt strip is the only portion of the vane 15 which comes into contact with the interior of the cylinder 5 thus the operation of the organ is not interrupted or interfered with.

I claim:—

In a device of the character described, the

combination of a tube connecting a blower 20 and a bellows, an elliptical vane pivotally arranged to swing its periphery against the interior of said tube, said vane comprising a plate and a frame member connected together and a strip of sound deadening material located between said plate and said 25 frame and extending beyond the periphery thereof, a flexible member adapted to pass over a series of suitably arranged pulleys and means for operatively connecting the 30 said flexible member to the said vane and the said bellows to close the said vane when the bellows is filled and open said vane as the bellows empties.

In testimony that I claim the above, I 35 have hereunto subscribed my name.

ABRAHAM J. SCHANTZ.