

(No Model.)

V. SEIDEL.

CUT-OFF VALVE FOR MUSICAL INSTRUMENTS.

No. 468,308.

Patented Feb. 2, 1892.

Fig. 1.

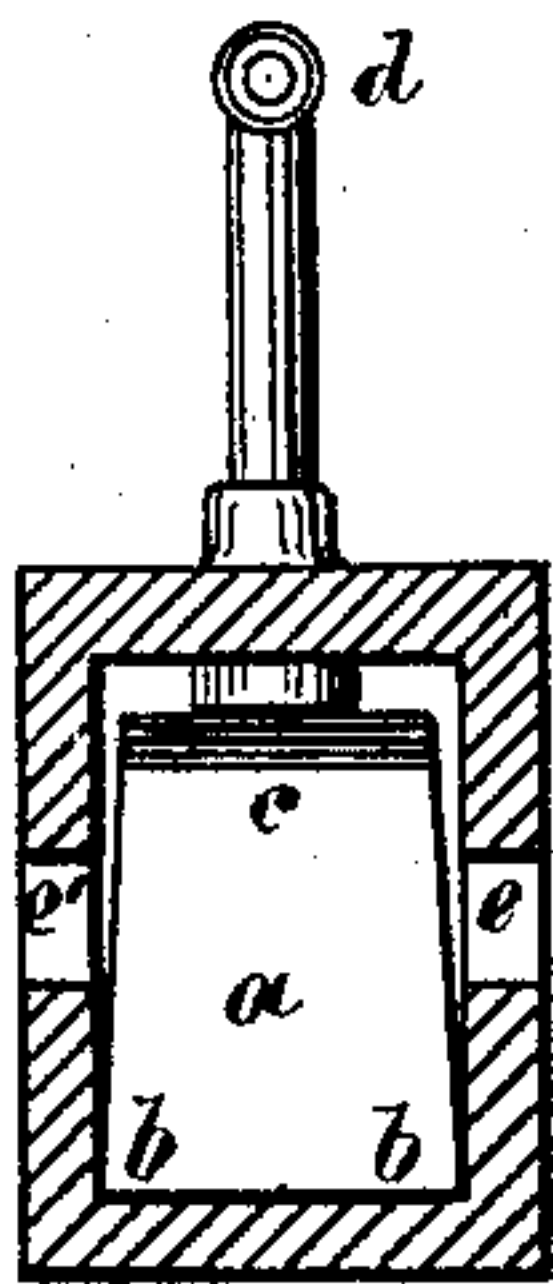


Fig. 2.

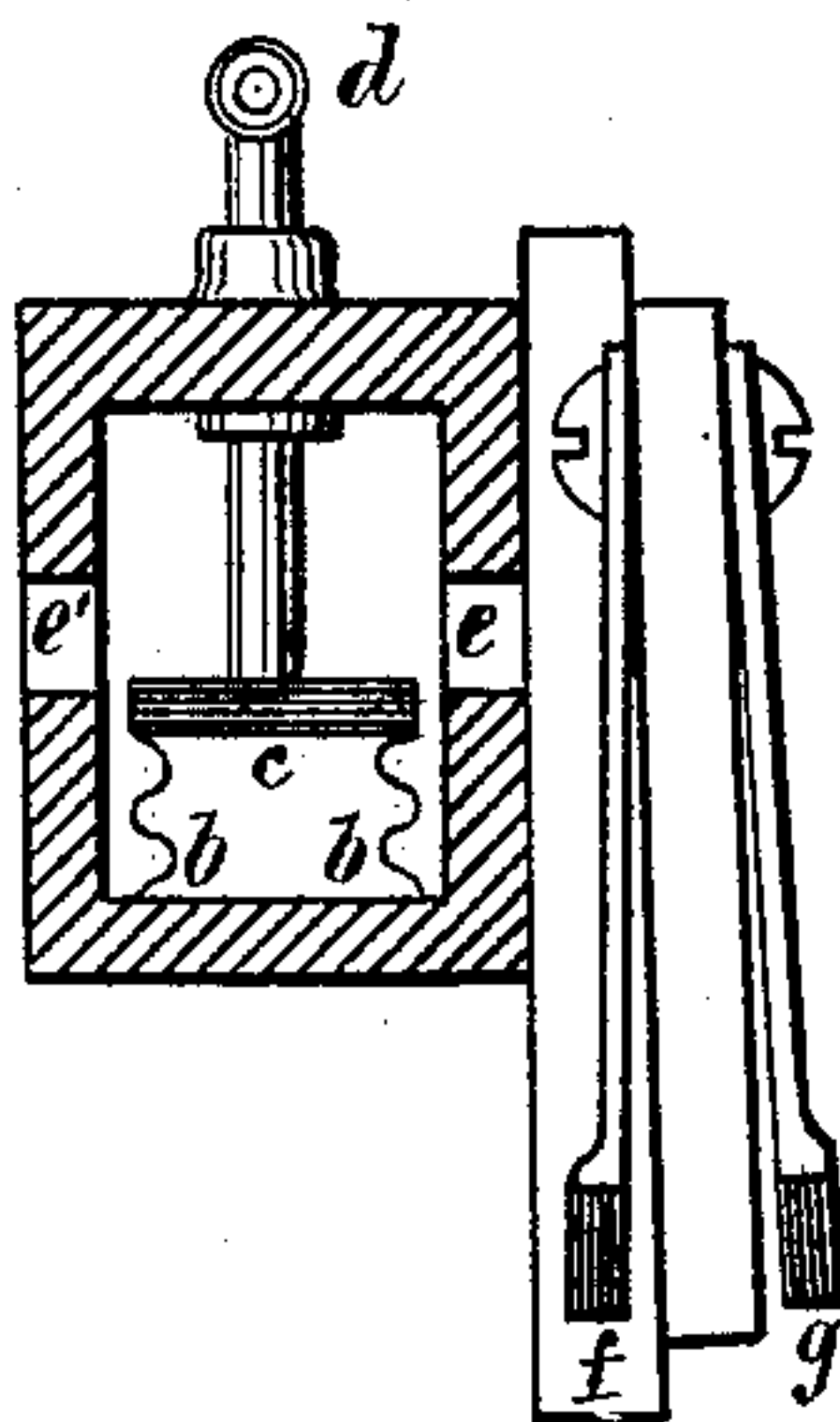
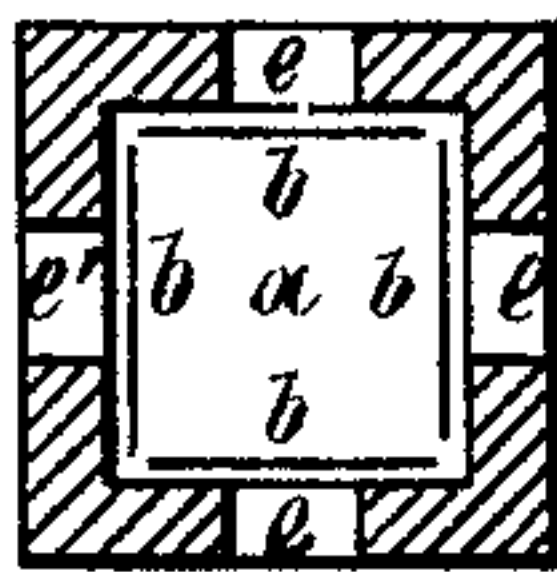


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## CUT-OFF VALVE FOR MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 468,308, dated February 2, 1892.

Application filed September 25, 1891. Serial No. 406,847. (No model.)

*To all whom it may concern:*

Be it known that I, VICTOR SEIDEL, a subject of the King of Saxony, Germany, residing at Leipsic, Gohlis, in the Kingdom of Saxony, Germany, have invented certain new and useful Improvements in Cut-Off Valves for Musical Instruments, of which the following is a specification.

This invention relates to valves particularly applicable for musical instruments, the closure of which valves are effected pneumatically by suction or pressure upon bands of air-proof material, and such valves are opened by loosening and pushing back the band or bands into folds, all as hereinafter described.

My invention will be understood by the following description:

Referring to the accompanying drawings, Figure 1 shows a valve so constructed, the same being closed; Fig. 2, a similar valve opened; and Fig. 3 is a horizontal section through Fig. 1.

According to my invention I provide in a valve-chamber *a*, Fig. 1, one or more bands or leaves *b*, of india-rubber, leather, parchment, or other air-proof or suitable material, each band or leaf *b* being fastened at one end to the bottom of the chamber *a* and at the other end to a piece of metal or other suitable material *c*, so that upon the lifting of the said piece *c* the bands *b* lie against or nearly parallel and adjacent to the walls of the chamber *a* and cover the openings *ee'*. The hermetic closure of the openings ensues upon the air-

suction taking place through one or more of the bands *b* coming against the aperture or apertures *ee'*, and upon the entry of air-pressure the valve is closed by the pressure of the bands against the walls of the valve-chamber. The opening of the valve is effected by lowering the piece *c* by means of wire or rod *d*, actuated by, for example, a lever or a key sliding downward, say, by its own weight, or by spring-pressure, or by depression of a key or of a lever, and thereby drawing away the bands *b* from the valve-openings *e* and *e'*, so that the suction or pressure can freely take effect and reach the notes, (see Fig. 2,) in which *f* represents the note for suction, *g* the note for compression, and *e'* the opening for the entrance and exit of air.

What I claim is—

The musical-instrument valve consisting of chamber *a*, having side openings, one or more flexible leaves *b*, secured at the lower end of the chamber and extending up beside said openings, and the operating-plate *c*, to which the upper ends of said leaves are secured, provided with controlling means *d*, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

VICTOR SEIDEL.

Witnesses:

ERNST SCHWEBS,  
CARL BORNGRAEBER.