

(Model.)

J. FOWLER.
VACUUM VALVE.

No. 244,879.

Patented July 26, 1881.

Fig. 1.

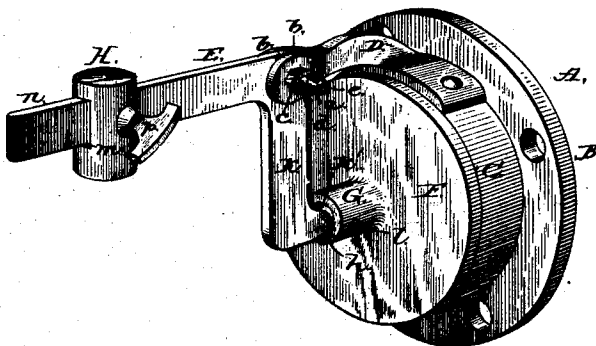
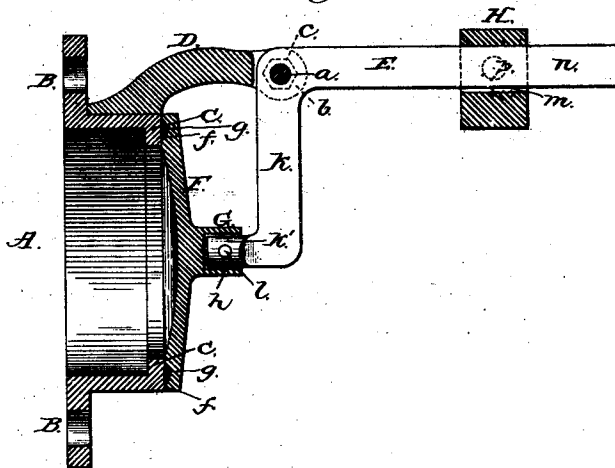


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN FOWLER, OF LOUISVILLE, KENTUCKY.

VACUUM-VALVE.

SPECIFICATION forming part of Letters Patent No. 244,879, dated July 26, 1881.

Application filed November 20, 1880. (Model.)

To all whom it may concern:

Be it known that I, JOHN FOWLER, of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and valuable
5 Improvement in Vacuum-Valves; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this
10 specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view. Fig. 2 is a sectional view.

This invention relates to vacuum-valves; and
15 it consists in the construction hereinafter described.

In the drawings hereto annexed, A represents a valve-seat having a flange, B, for fastening in place, and the raised seat proper, C.
20 Projecting outward from this seat C is an arm, D, which serves as a fulcrum for an elbow-lever, E, which is held by a bolt, *a*, between ears *b b* of arm D, said bolt *a* passing through the nut *c*, and having a perforation, *d*, for a locking pin or ring, *e*.
25

F represents the valve, made to fit upon the face *f* of seat C, and having the portion of its surface fitting said face grooved, as shown at *g*, which said groove makes it fit tighter and
30 renders it easier to be removed. On the back of this valve F has a boss, G, in which is a socket, *h*. The lower arm, *k*, of lever E is turned inward at *k'*, and entering socket *h* is loosely secured therein by a pin, *l*.

H is a weight, which is slotted at *m* and
35 passed over arm *n* of lever E, and made adjustable thereon by a set-screw, *p*. This valve is to be placed within any receptacle which is likely to be affected by having a vacuum formed therein, such as stills. The weight H is ad-
40 justed upon arm *n* to suit the desired amount of pressure. When there is pressure within the valve will be kept closed, but any tendency to form a vacuum will be counteracted by outside pressure forcing open the valve and
45 admitting air.

I am aware that a vacuum or air valve is not broadly new, and I desire only to be protected in the construction herein shown and described.

What I claim is—

In a vacuum or air valve, the valve-seat A,
50 having seat proper, C, from which projects the arm D, carrying ears *b b* at its outer end, the elbow-lever E, pivoted between the ears *b b*, having weight H, and the arm *k*, loosely pivoted at
55 its lower end at *l* to the boss G on the valve F, constructed, combined, and operating substantially as and for the purpose set forth.

In testimony that I claim the above I have
60 hereunto subscribed my name in the presence of two witnesses.

JOHN FOWLER.

Witnesses:

GEORGE W. LEVI,
K. N. ADAMS.