

P. MUNZINGER.

Hinged-Covers for Retort-Caps.

No. 157,100.

Patented Nov. 24, 1874.

Fig. 1.

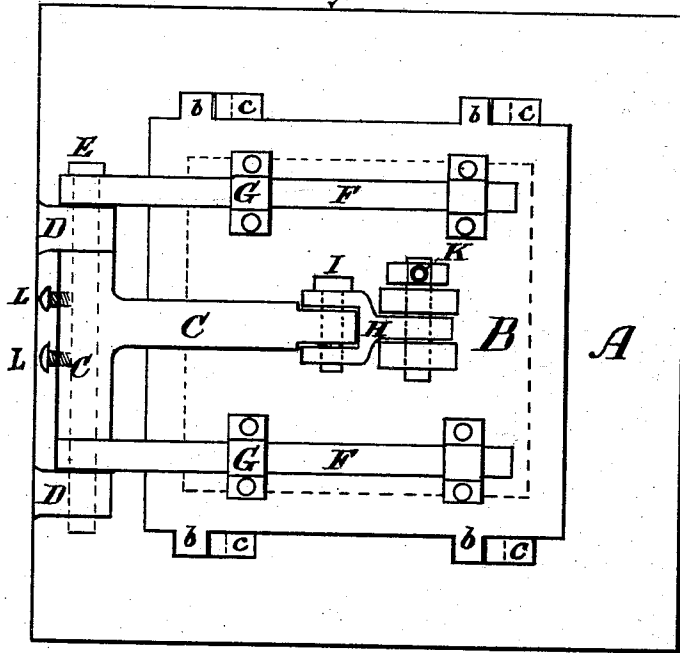
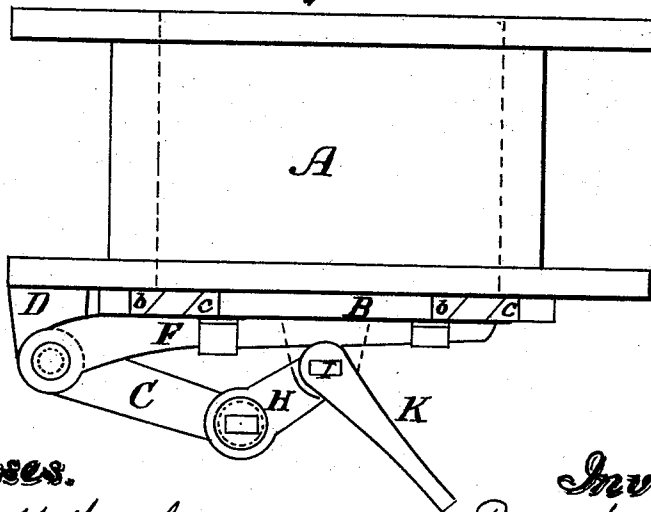


Fig. 2.



Witnesses.
J. Bonsall Taylor.
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By his Atty.
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UNITED STATES PATENT OFFICE.

PETER MUNZINGER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN HINGED COVERS FOR RETORT-CAPS.

Specification forming part of Letters Patent No. **157,100**, dated November 24, 1874; application filed June 25, 1874.

To all whom it may concern:

Be it known that I, PETER MUNZINGER, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Hinged Cover for Retort-Caps; and do hereby declare the following to be a full, clear, and precise description of the same, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 is a plan of my cover, and Fig. 2 a side elevation of the same.

Similar letters of reference indicate like parts in both the figures.

My invention consists of the combination, with a hinged cover for gas-retorts, of the hereinafter-described mechanism for locking the cover.

To enable those skilled in the art to which my invention appertains to make and use it, I will proceed to describe in detail the construction of that invention.

A is the cap or neck of a gas-retort. B is the hinge-cover, which is a flat piece of metal ground on its under surface, as is also the upper surface of the retort-cap. It is provided upon both its sides with little lugs or projections *b b b b*, having one of their ends each beveled obliquely off. There are four oppositely-beveled studs upon the retort-cap, *c c c c*, under which the lugs on the cover slide, by which they are partially covered, and whereby the cover itself is prevented from being raised perpendicularly up. At one side of the retort-cap is set a hinged rocking-shaft connection, C, pivoted by means of the bearing-pieces D and the rod E. It is provided with set-screws L to alter its adjustment upon the rod E. Pivoted also upon the rod E are two hinge-bars, F, passing along across the cover, and held loosely in position by the cap-piece G.

Now, it will be readily understood that the cover can be slid upon the retort-cap laterally

to a certain extent, as far as the play on the cap-pieces G over the hinge-bars F will allow.

Set and hinged almost centrally upon the cover is a second rocking-shaft connection, H, shorter than C, and connected by a hinge-joint with it at I. The axle of this rocking shaft is squared at one extremity, where it projects beyond its bearing, and upon this square end is fastened a hand-lever, K.

Having thus described the construction of my invention, its action is very simple, and consists in the sliding of the hinge-cover B upon the retort-cap A, the sliding being effected by the action of the hand-lever K, causing, as it does, the straightening into line of the two rocking shafts, one of which abuts upon the retort-cap, the other upon the cover, and whereby the cover is slid away from the hinged end of the shaft C, and whereby, also, the lugs *b* are slid under the studs *c* and the cover locked.

When unlocked it can be raised by the hinge-bars F, the whole device being for the time a simple hinged cover.

When the lid is let fall a reverse deflection of the lever will once more lock the cover.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

The hinged cover B, in combination with the hand-lever K and the two rocking shafts H and C, the deflection of the hand-lever causing the shafts to come into line or form an angle with one another, and causing thereby the cover itself to slide laterally forward or backward, and its lugs to take under the studs on the retort-cap or separate from them, in the manner and for the purpose specified.

PETER MUNZINGER.

Witnesses:

J. BONSALE TAYLOR,
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