

(No Model.)

C. C. WALKER.
LID FOR GAS RETORTS.

No. 522,137.

Patented June 26, 1894.

Fig. 1.

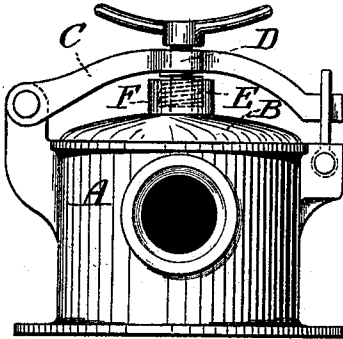


Fig. 2.

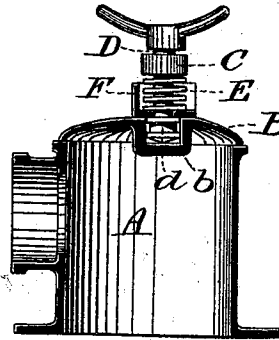


Fig. 3.

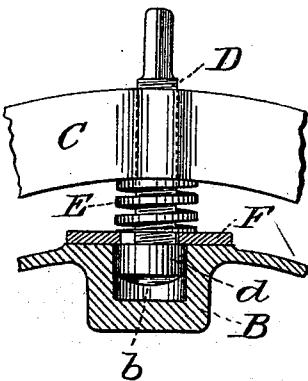
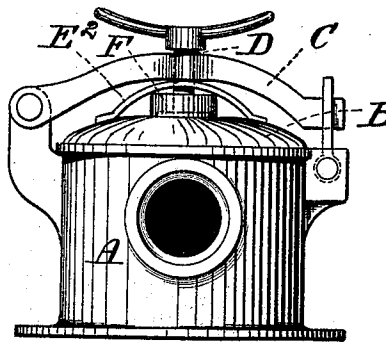


Fig. 4.



Witnesses:

Edw. A. Dick
Wm. C. Fox

Inventor:
Charles C. Walker
by *Marcellus Bailey*
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UNITED STATES PATENT OFFICE.

CHARLES CLEMENT WALKER, OF DONNINGTON, NEAR NEWPORT, ENGLAND.

LID FOR GAS-RETORTS.

SPECIFICATION forming part of Letters Patent No. 522,137, dated June 26, 1894.

Application filed February 20, 1894. Serial No. 500,906. (No model.)

To all whom it may concern:

Be it known that I, CHARLES CLEMENT WALKER, engineer, a subject of the Queen of Great Britain and Ireland, residing at Midland Iron Works, Donnington, near Newport, in the county of Salop, England, have invented certain Improvements in or Connected with the Lids of Gas-Retorts or the Like, of which the following is a specification.

My invention relates to the lids of retorts to which lids a sliding movement is imparted with the object of causing the lid to rub on the rim of the mouthpiece when it is closed and opened. Means for this purpose are described in the specification of United States Letters Patent No. 331,102, dated November 24, 1885, and it is the object of my invention to provide means whereby a more efficient rubbing action of the lid upon the rim of the mouthpiece is insured. To effect this I make the eccentric boss which is upon the screw and which engages in the corresponding recess in the lid of less depth or thickness than hitherto or than the depth of the recess and I place a flexible device such as a coiled or bow spring or springs between the lid and the cross bar which device keeps the lid in contact with the rim of the mouthpiece during the final portion of the operation of the screw in closing the mouthpiece and also during the first portion of the operation of the screw in opening the mouthpiece and as during such times the eccentric boss gives an eccentric movement to the lid a very efficient rubbing of the lid on the rim of the mouthpiece is insured as the lid is by the flexible device or spring or springs caused at such portions of the operation of the screw to keep in contact with the said rim.

The accompanying drawings show means whereby my invention may be carried into effect.

Figure 1 is a plan and Fig. 2 is a section of a retort mouthpiece and lid provided with my invention and Fig. 3 is a sectional view of part thereof drawn to a larger scale. Fig. 4 is a plan showing a different kind of spring.

A is the retort mouthpiece.

B is the lid.

C is the cross bar and D is the screw passing through the said bar for pressing the lid onto the mouthpiece. Upon this screw is the eccentric boss *d* which engages in the recess *b* in the lid. The said boss *d* is of less thickness or depth than the depth of the recess *b*.

E is a coiled spring placed between the lid B and the cross bar C.

F is a plate or box which takes the bearing of one end of the spring the said plate or box having an opening in it of sufficient size to allow of the working of the screw D.

In Fig. 4 I have shown a bow or flat spring E as taking the place of the coiled spring E the other parts being like and lettered similarly to those shown in Figs. 1, 2 and 3. The spring E keeps the lid in contact with the rim of the mouthpiece during the final portion of the operation of the screw in closing the mouthpiece and also during the first portion of the operation of the screw in opening the mouthpiece so that the action of the eccentric combined with that of the spring gives a very efficient rubbing action as aforesaid.

I claim—

The combination with the retort mouthpiece and lid and cross bar and screw of an eccentric on the screw engaging in a recess in the lid the said recess being of greater depth than the thickness of the eccentric and of a yielding device between the lid and the cross bar substantially as and for the purpose hereinbefore described and illustrated by the accompanying drawings.

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

CHARLES CLEMENT WALKER.

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