

(No Model.)

F. B. GIESLER.

ATTACHMENT FOR MALTING DRUMS, BEER VATS, AND SIMILAR STRUCTURES.

No. 461,187.

Patented Oct. 13, 1891.

Fig. 1.

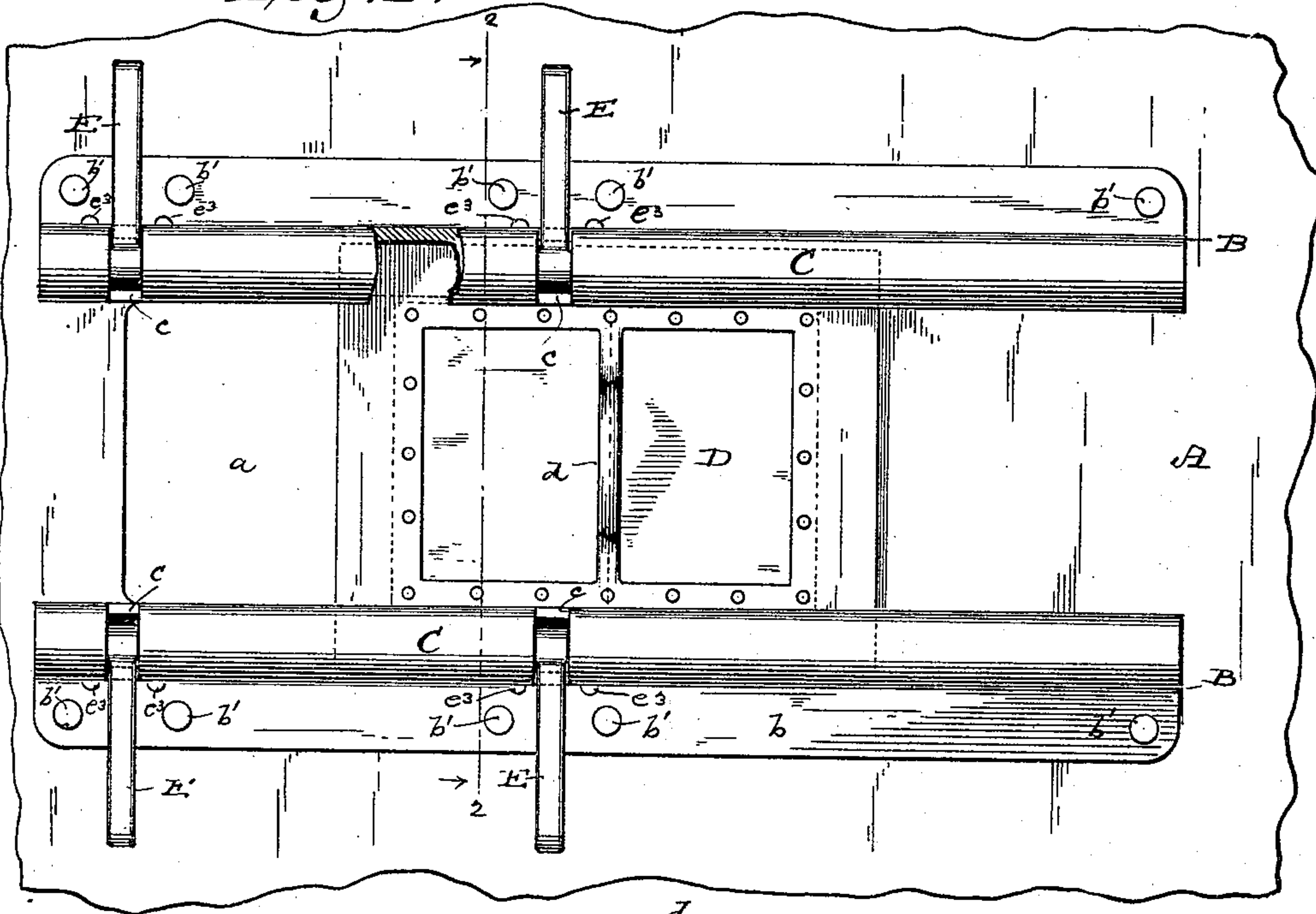


Fig. 2.

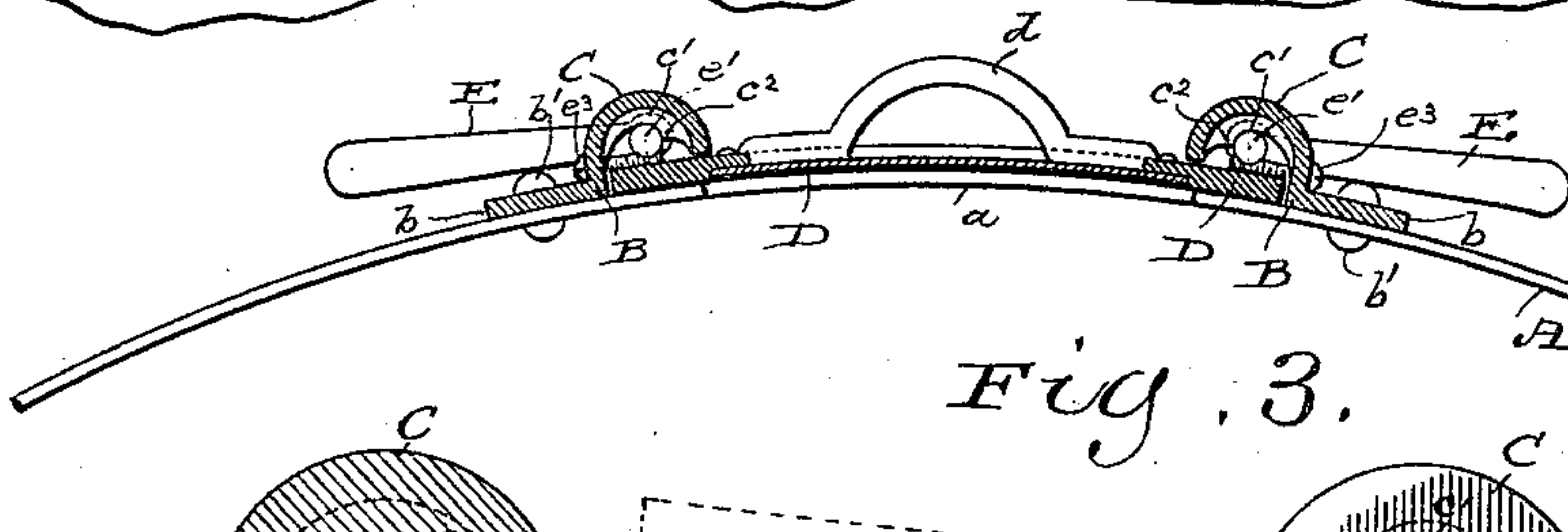


Fig. 3.

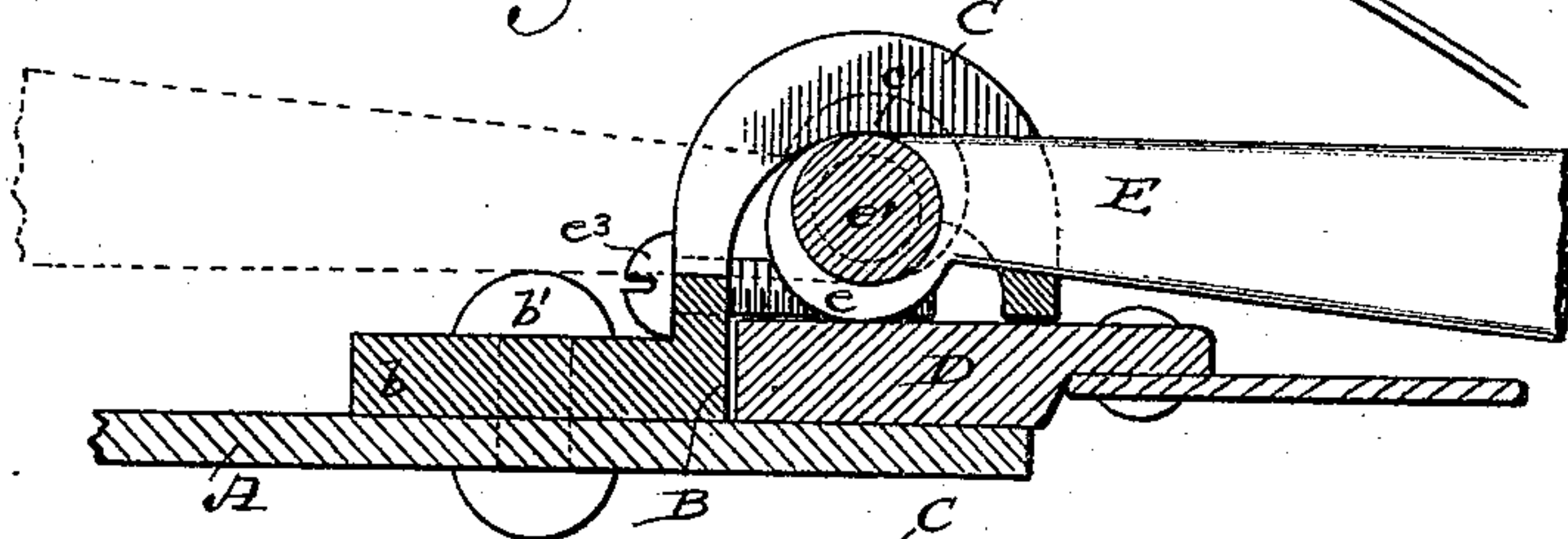


Fig. 4.

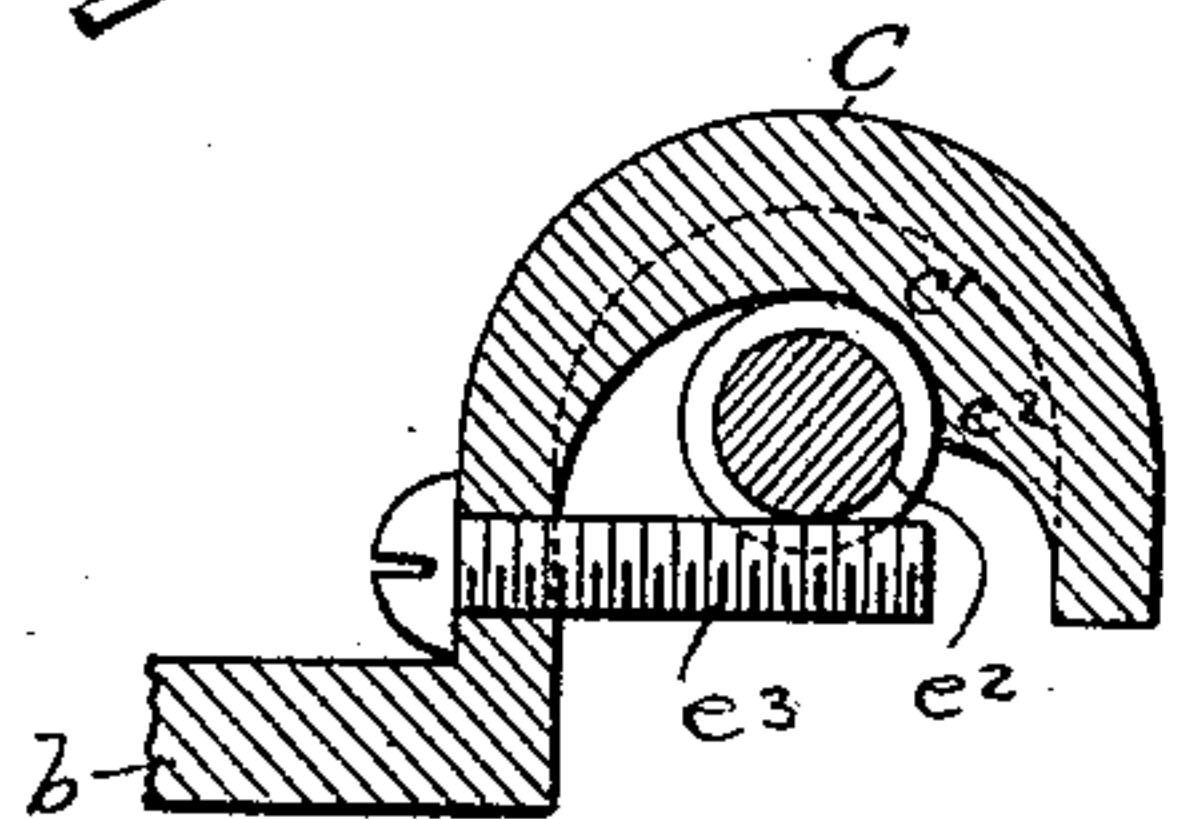
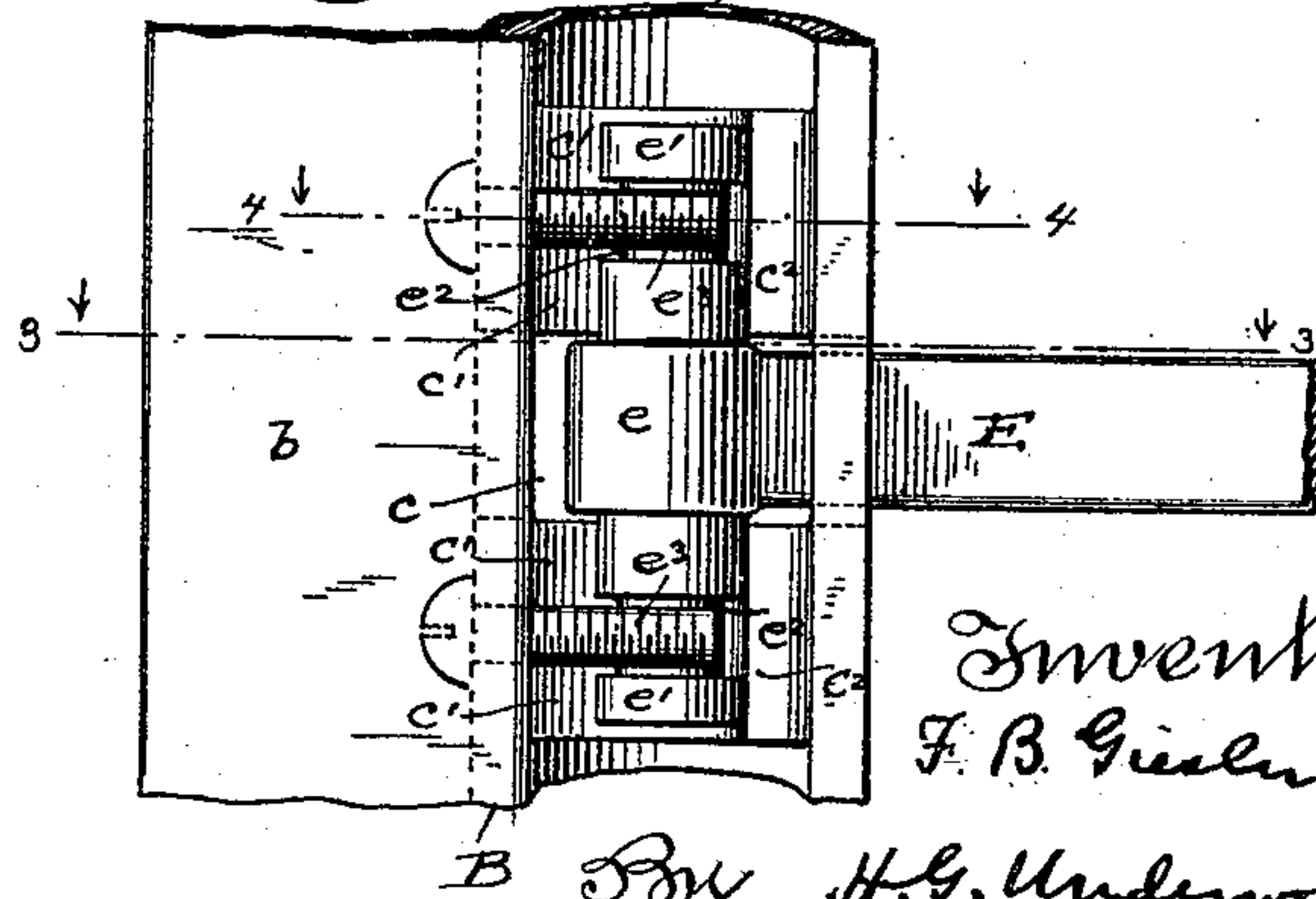


Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

FRANKLIN B. GIESLER, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO THE
GALLAND-HENNING PNEUMATIC MALTING DRUM MANUFACTURING
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ATTACHMENT FOR MALTING-DRUMS, BEER-VATS, AND SIMILAR STRUCTURES.

SPECIFICATION forming part of Letters Patent No. 461,187, dated October 13, 1891.

Application filed October 24, 1890. Serial No. 369,166. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN B. GIESLER, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Attachments to Malting-Drums, Beer-Vats, and Similar Structures; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to the covers for the man-holes of malting-drums, beer-vats, and similar structures; and the invention consists in certain peculiar and novel features of construction and arrangement, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan view of a portion of the top of a malting-drum with my improvements applied thereto. Fig. 2 is a transverse section of the same on the line 2 2 of Fig. 1. Fig. 3 is a detached sectional view on the line 3 3 of Fig. 5. Fig. 4 is a cross-section on the line 4 4 of Fig. 5. Fig. 5 is an under side view of the drum-top, showing the construction of one of the fasteners.

The object of my invention is to provide means whereby the covers of malting-drums, beer-vats, and similar structures can be quickly and firmly held in closed position and also quickly released when such covers are to be opened. This result I attain by virtue of the construction, which I will now proceed to describe.

In the said drawings, A designates the top of a malting-drum or similar structure, and a designates a man-hole formed therein.

B B designates two guides, which have flanges b, through which extend bolts or rivets b'. These guides are placed parallel with each other at opposite sides of the man-hole a and adjacent to two of the margins of said man-hole, substantially as shown in Figs. 1 and 2. Each of these guides is formed with inverted-U-shaped flanges C, which extend longitudinally of the flanges b and extend toward each other at the adjacent margins of

the flanges b, so as to overhang the slide or cover D, the said cover being preferably formed or provided with a suitable handle d. At intervals each flange C is formed with a transverse opening c, and on its under side at opposite sides of each opening with two transverse ribs c'. Each of these ribs is formed beyond its center with an offset c², for a purpose to be presently explained.

E designates levers, each of which is formed on its inner end with a cam-shaped enlargement e, which lies on the under side of the lever. From opposite sides of the inner end of each lever extend two arms e' e', each of which is formed with a circular transverse groove e², to receive a screw or pin e³, said pins or screws extending transversely through the outer walls of the guide-flanges C.

The operation will be readily understood from the foregoing description, together with the accompanying drawings. When the cover has been moved over the man-hole, the levers E are thrown toward each other, their arms e' pressing upward against the offsets c² and their cams e pressing upon the upper side of the cover D and the cam, serving, together with the offsets c², to hold the levers in depressed position extending toward each other. When the man-hole is to be uncovered, the levers E are lifted and moved away from each other, thus releasing the pressure upon the door or slide D.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. The combination, with a malting-drum, beer-vat, or similar structure and its man-hole, of oppositely-disposed guides supporting a sliding door and having curved flanges, transverse openings located in said flanges, ribs having offsets located at opposite sides of said openings, and levers arranged in said openings having cam-heads and oppositely-extending arms, the latter working beneath said ribs, substantially as set forth.

2. The combination of a drum or vat having a sliding door, levers having cam-heads

and grooved arms, guide-flanges having trans-verse openings receiving said levers, and screws or pins inserted laterally in said flanges and entering the grooves in said lever-
5 arms, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in

the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

FRANKLIN B. GIESLER.

Witnesses:

H. G. UNDERWOOD,
WM. KLUG.