

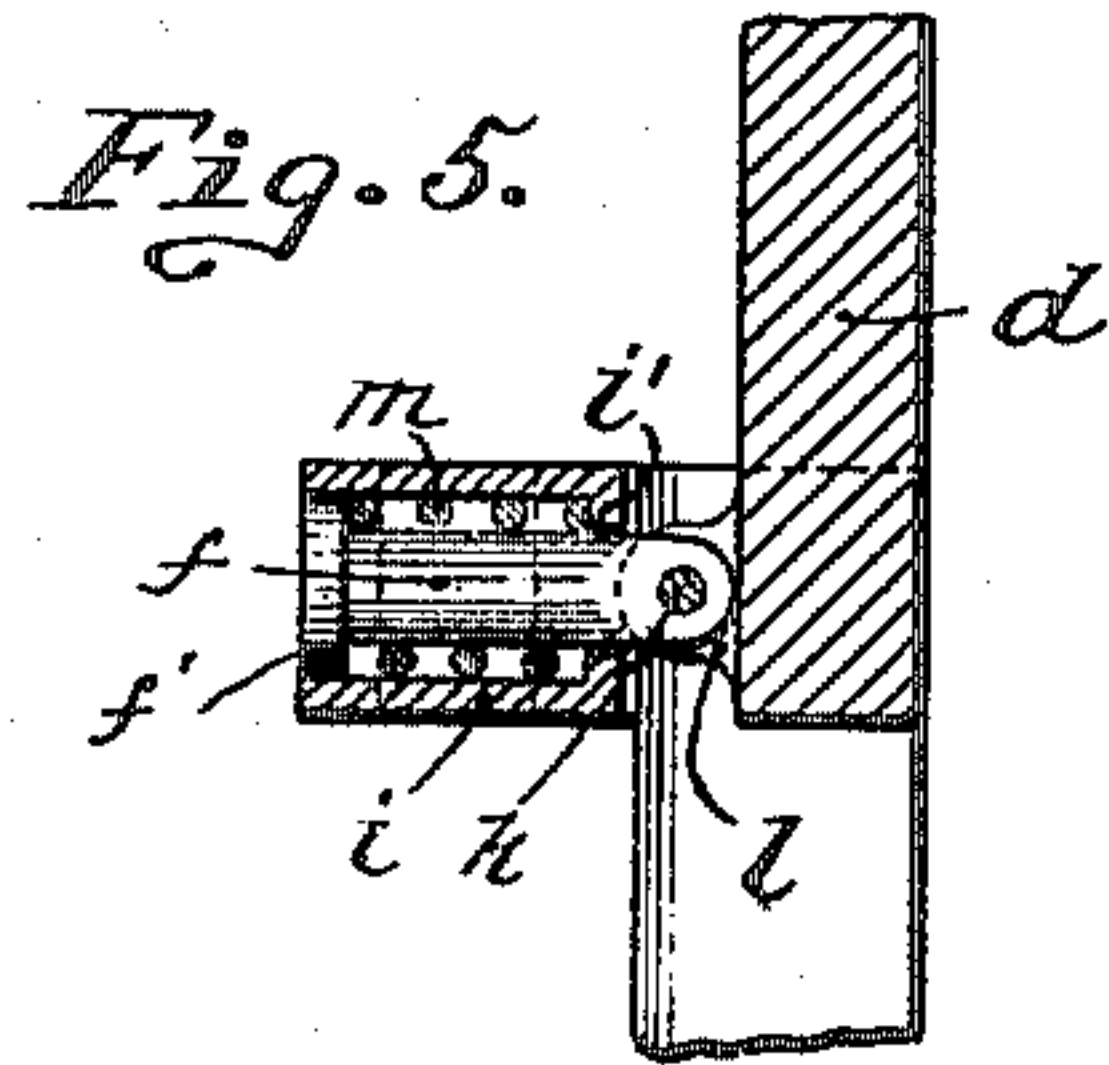
No. 640,414.

Patented Jan. 2, 1900.

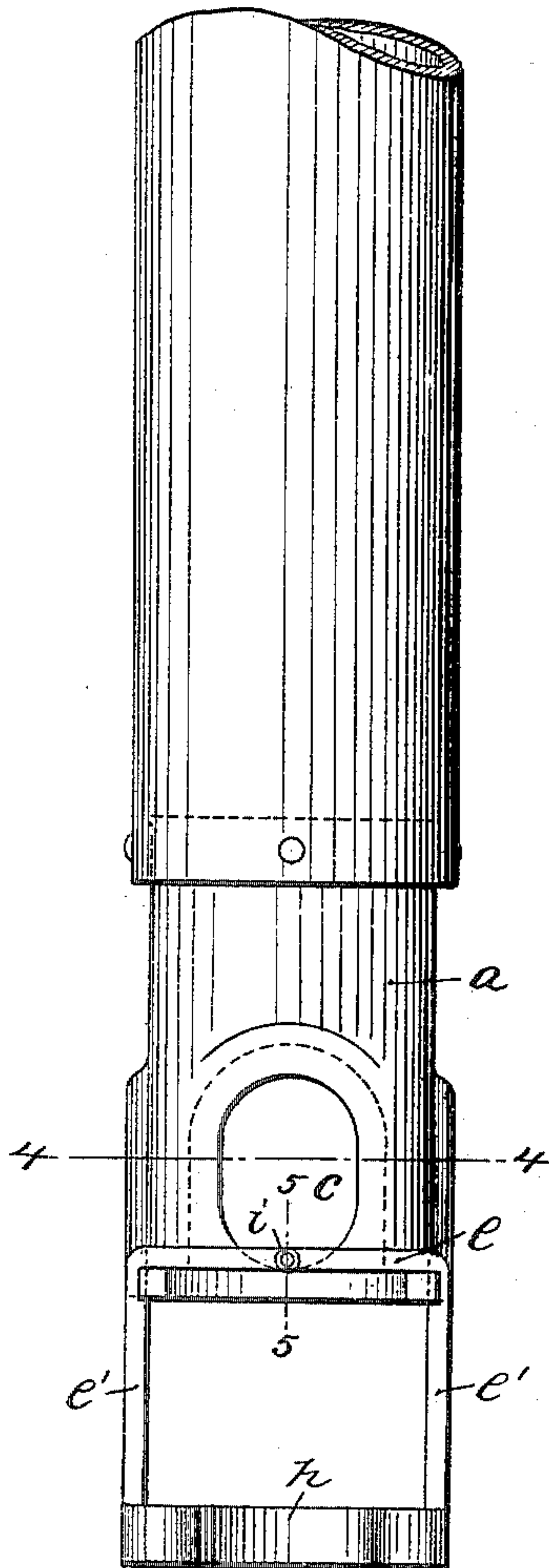
W. PLOTTS.  
BAILER.

(Application filed Jan. 29, 1898.)

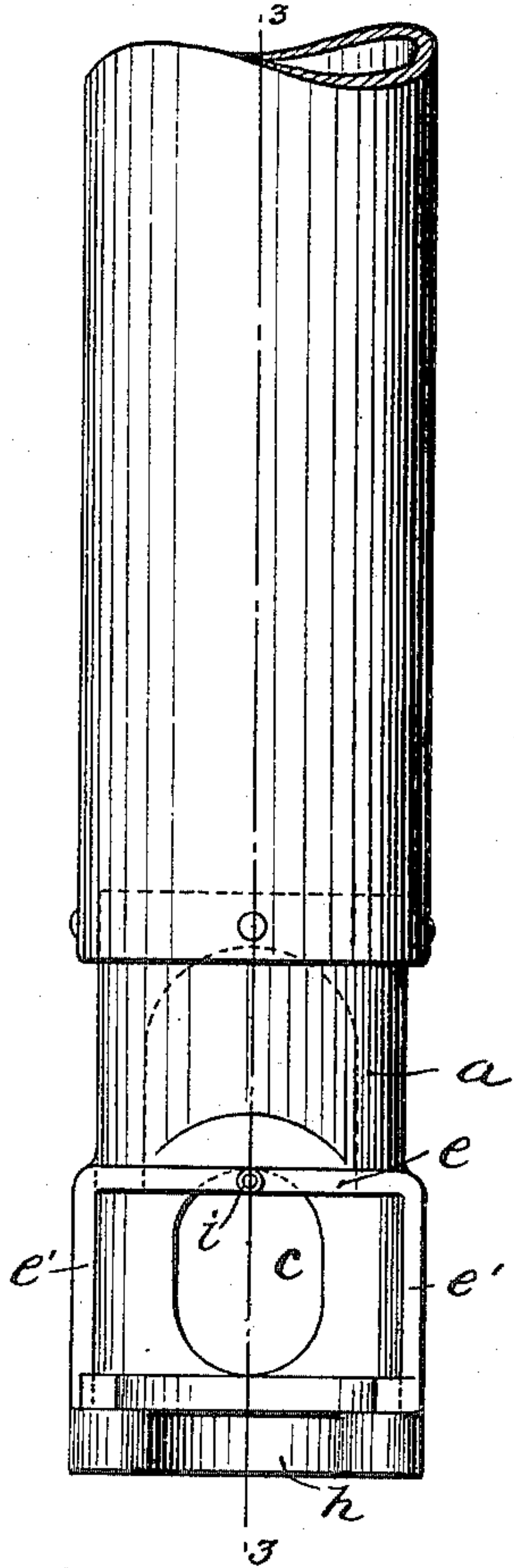
(No Model.)



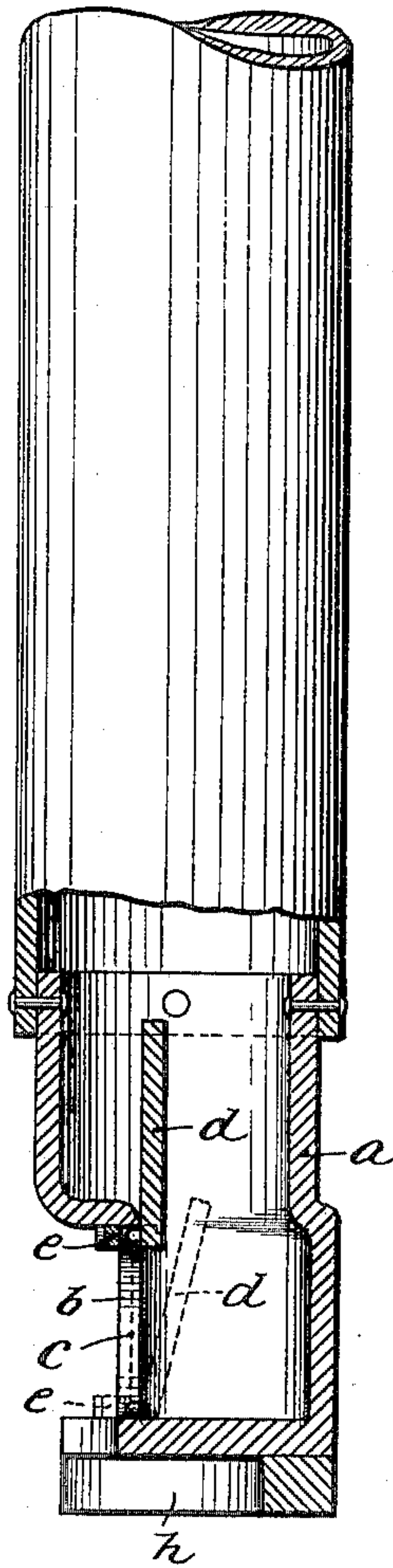
*Fig. 2.*



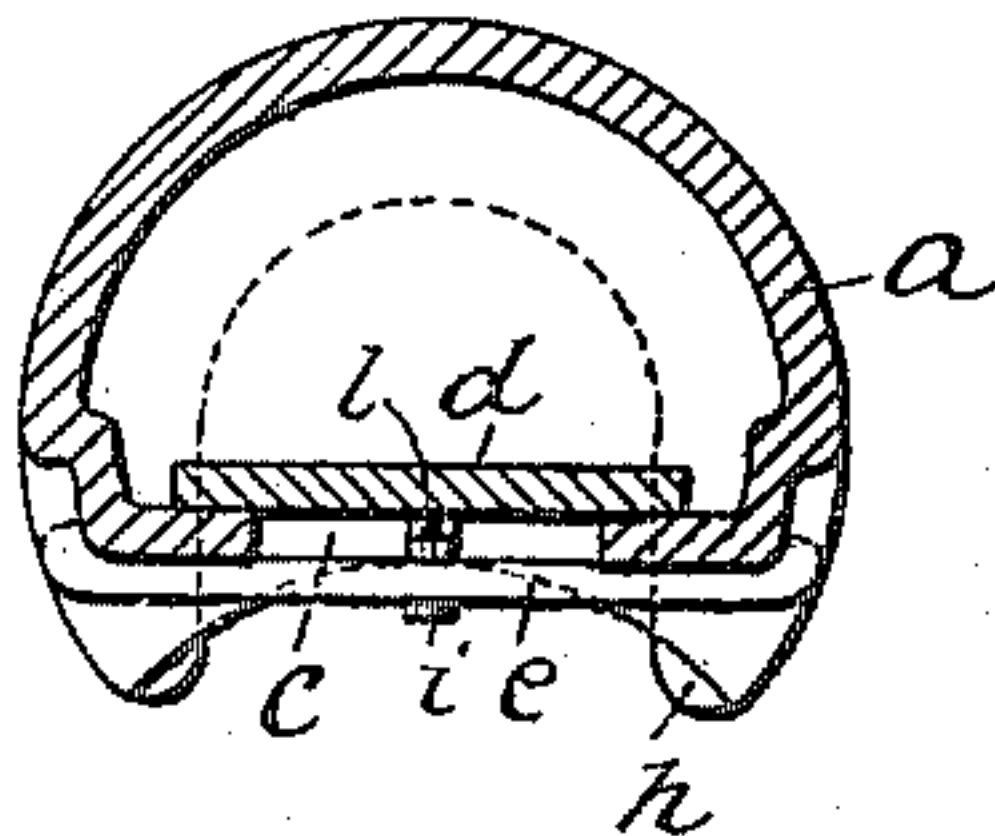
*Fig. 1.*



*Fig. 3.*



*Fig. 4.*



Witnesses:

Walter K. Mariss  
Robert C. Follen

Inventor:  
William Plotts  
By Kay & Follen  
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# UNITED STATES PATENT OFFICE.

WILLIAM PLOTTS, OF McDONALD, PENNSYLVANIA.

## BAILER.

SPECIFICATION forming part of Letters Patent No. 640,414, dated January 2, 1900.

Application filed January 29, 1896. Serial No. 577,245. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM PLOTTS, a resident of McDonald, in the county of Washington and State of Pennsylvania, have invented a new and useful Improvement in Bailers; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to bailers for oil-wells and other purposes for which it may be found applicable.

My invention relates more particularly to certain improvements in the bailer set forth in Letters Patent No. 496,323, granted to me April 25, 1893, the object of my present invention being to provide the opening of the bailer with a sliding cover, which will begin to open before the bailer reaches the bottom of the well.

To enable others skilled in the art to make and use my invention, I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a front view of the bailer, showing the cover raised. Fig. 2 is a like view, showing the cover lowered. Fig. 3 is a section on the line 3 3, Fig. 1. Fig. 4 is a section on line 4 4, Fig. 2; and Fig. 5 is a detail view of the hinge connection of the cover.

Like letters indicate like parts in each of the figures.

As the invention only relates to the lower end of the bailer I have not deemed it necessary to illustrate and describe the upper parts, which are set forth in said Letters Patent.

The body *a* of the bailer is cut away in the front to form the slightly-indented portion *b*. An opening *c* is formed in this indented portion *b*, said opening being provided with the interior sliding cover *d*. This cover *d* is connected to the band *e* by the bolt *f*. The band *e* extends across the front or indented portion *b* of the body *a* of the bailer and has the arms *e'* depending therefrom and connected to the weight *h*. The weight *h* may be of any suitable shape; but I prefer to employ a crescent-shaped weight, such as is set forth and claimed in an application for Letters Patent filed by me of even date herewith, Serial No.

577,244. The band *e* has the seat *i* formed thereon, through which the bolt *f* passes. The inner end of the bolt *f* is bifurcated, a pin *k* passing through said end, and a lug *l* on the cover *d* secures said cover to said bolt. This connection permits said cover to swing inwardly, as shown in dotted lines, Fig. 3. A spring *m* is interposed between a shoulder *i'* at the inner end of the seat *i* and the head *f'* of the bolt. This spring tends to retain the cover *d* normally in its vertical position, as shown in full lines, Fig. 3.

The operation of the bailer is as follows: When lowered into the well, the weight of the column of fluid in the well forces the cover *d* to swing to the position shown in dotted lines, Fig. 3, and admits the sediment into the bailer, even though the weight *h* has not reached the bottom of the well. As the bailer descends to the bottom of the well it is thus gradually opened until the weight striking said bottom the cover is raised to the position shown in full lines, Fig. 3, and the opening is entirely opened. When the bailer is raised the weight will lower the cover and close the opening to prevent the escape of the contents.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A bailer having an opening formed therein, a cover for said opening, said cover being adapted both to slide vertically beyond the opening and swing inwardly, substantially as set forth.

2. A bailer having an opening formed therein, a cover for said opening, a weight, arms extending up from said weight, a band connecting said arms, said cover having a hinge connection with said band, substantially as set forth.

3. A bailer having an opening formed therein, a cover for said opening, a weight, arms extending up from said weight, a band connecting said arms, a bolt passing through said band and having a hinge connection with said cover, and a spring for holding said cover normally in a vertical position, substantially as set forth.

4. A bailer having an opening formed therein, a cover for said opening, a weight,

arms extending up from said weight, a band  
connecting said arms, said band having a  
seat therein, a bolt passing through said seat,  
said cover being hinged to the inner end of  
5 said bolt, and a spring interposed between a  
shoulder in said seat and the head of said  
bolt, substantially as set forth.

In testimony whereof I, the said WILLIAM  
PLOTTS, have hereunto set my hand.

WILLIAM PLOTTS.

Witnesses:

ROBT. D. TOTTEN,  
ROBERT C. TOTTEN.