

(No Model.)

A. EVANS.

DEVICE FOR CLOSING AIR TIGHT VESSELS.

No. 322,433.

Patented July 21, 1885.

Fig. 1.

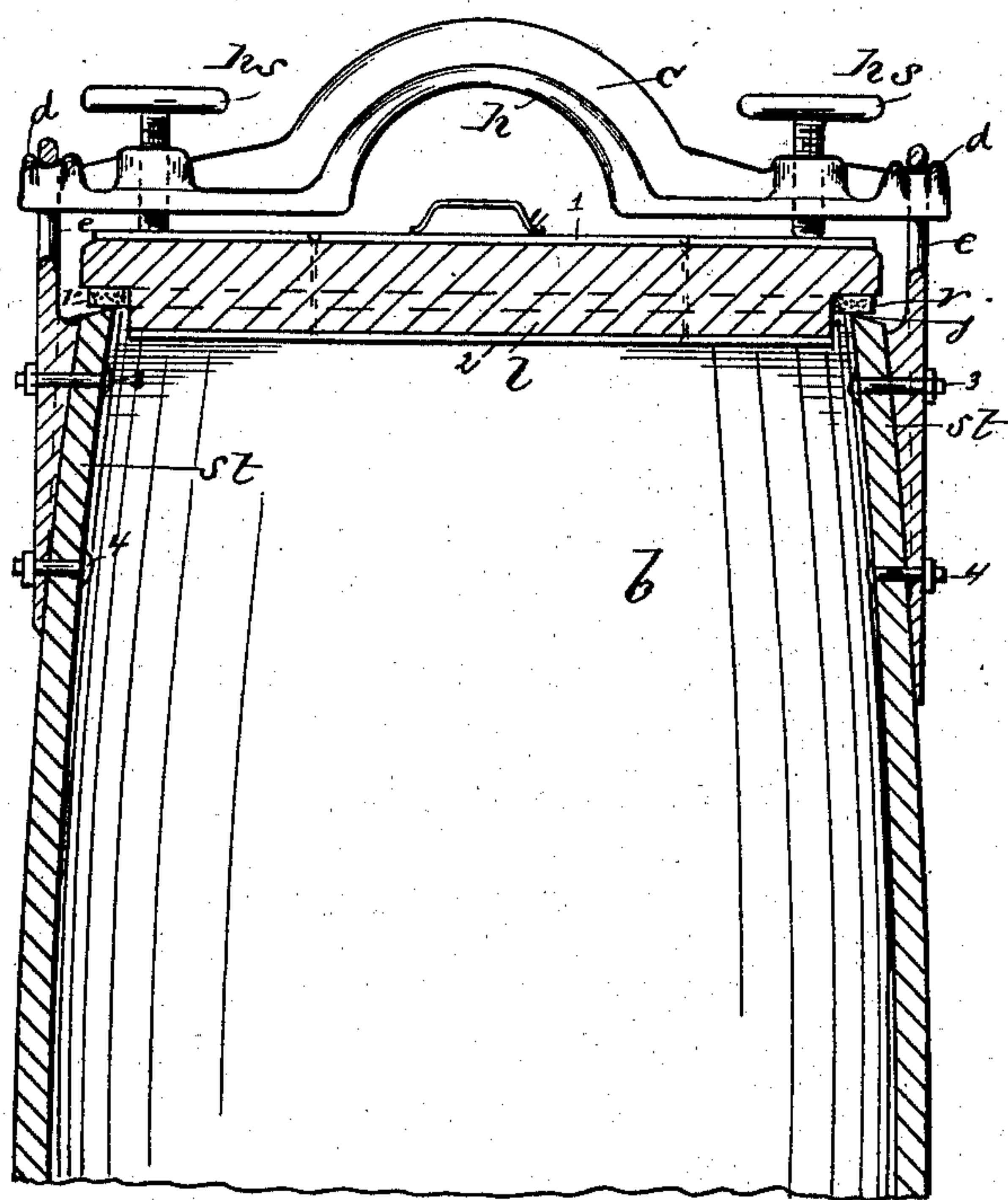


Fig. 2.

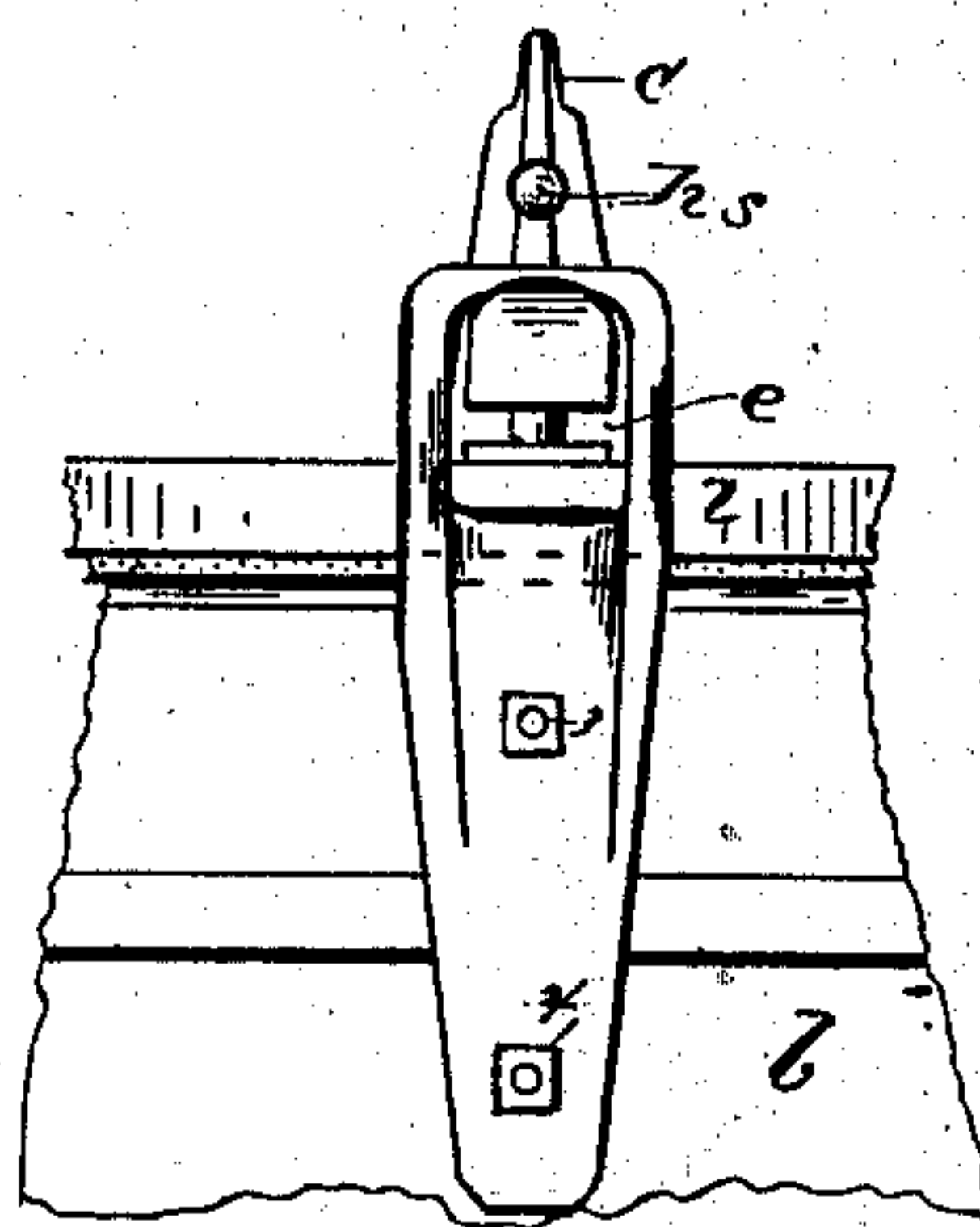
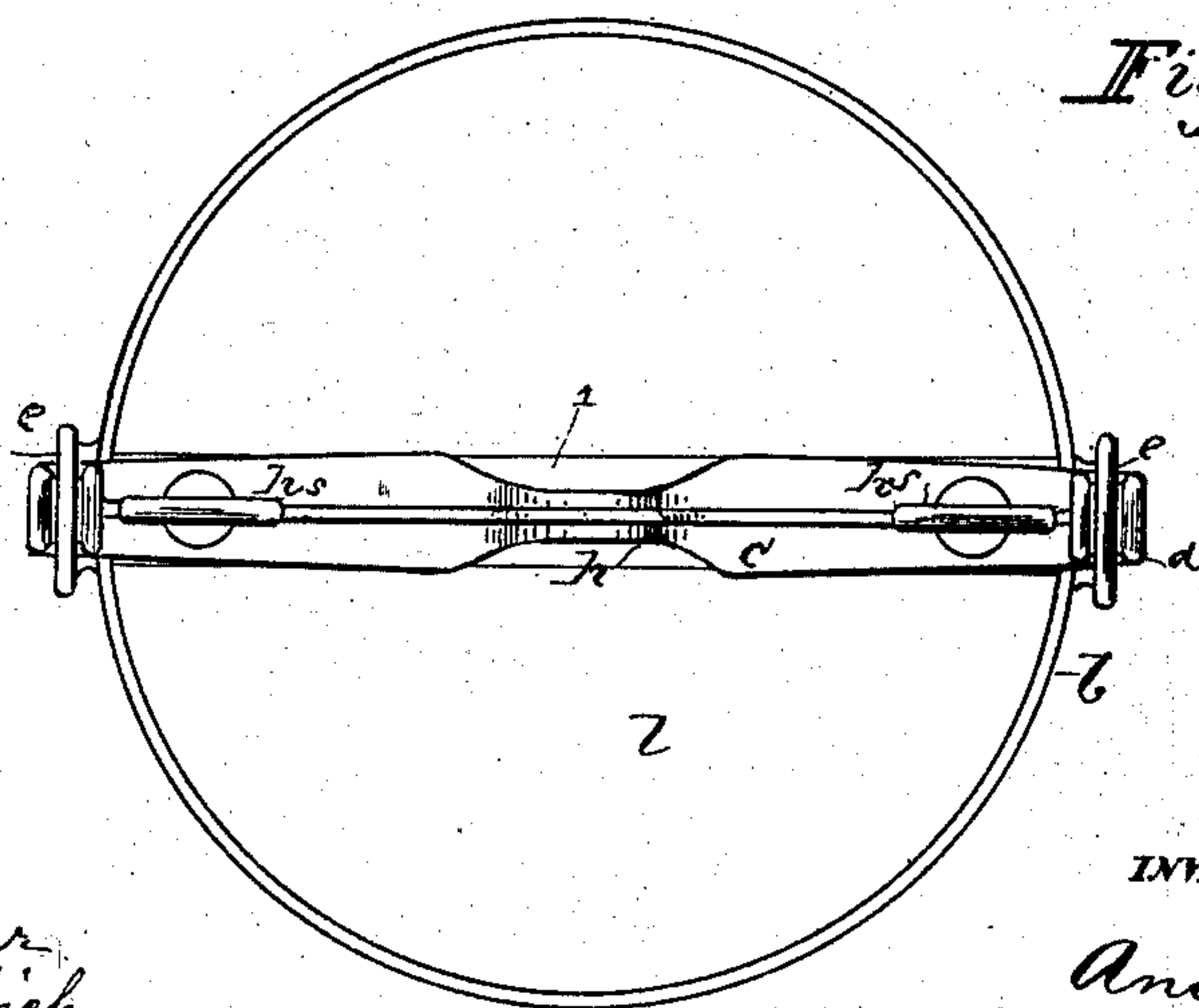


Fig. 3.



WITNESSES.

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ANDREW EVANS, OF INDIANAPOLIS, INDIANA.

DEVICE FOR CLOSING AIR-TIGHT VESSELS.

SPECIFICATION forming part of Letters Patent No. 322,433, dated July 21, 1885.

Application filed April 10, 1885. (No model.)

To all whom it may concern:

Be it known that I, ANDREW EVANS, of the city of Indianapolis, county of Marion, and State of Indiana, have invented certain new and useful Improvements in a Device for Closing and Handling Air-Tight Vessels, &c., of which the following is a specification.

The object of my invention is to provide a device for closing, locking, and handling vessels designed for use in emptying privy-vaults, cesspools, &c.; and I accomplish this object by means of the device described in this specification, and illustrated in the drawings filed herewith, and made a part hereof, and in which similar letters of reference relate to similar parts of my invention.

Figure 1 of the drawings represents a portion of a barrel in sectional view with my device attached. Fig. 2 represents a portion of a cask with my device attached, displaying an end view of the same when locked. Fig. 3 represents a plan view of a cask with the lid secured by means of my device.

In Fig. 1, *e* represents metal ears, secured to the opposite sides of the cask by means of bolts or screws 3 4 and having their upper ends projecting above the top of the lid *l* sufficiently to receive the saddle-shaped ends of the locking cross-bar *C*, in which they securely rest when my device is locked.

C represents a cast or malleable iron cross-bar, the middle part of which is made to curve upward, forming a handle, *h*, and the ends of which are provided with depressions or saddles *d*, to receive the ears *e*. Said bar *C* is also provided with hand-screws *h s*. *l* is a flanged lid provided with iron straps 1 and 2, bolted together, as seen in the drawings. *r* is a rubber packing-ring. *s t* are the staves of the cask, the upper ends of which are cut so as to form a V-shaped joint, *j*.

The method of operating my device is as follows: The lid *l* being placed in position on the mouth of the cask, I adjust the ends of the cross-bar *C* in the ears *e*, so that the saddles *d* will receive said ears when brought to bearing; screw down the hand-screws *h s*, which bear upon the iron strap 1, lifting the cross-bar *C* against the ear *e*, thus producing any desired pressure on the lid *e*, which, resting on the

rubber packing-ring *v*, forms an air-tight joint at *j*, when the cask can be lifted in and out of the vehicle by the handle *h*.

The advantage I derive from employing my device are as follows: The V-shaped joint *j*, caused by cutting the staves *s t*, as described, in combination with the elastic rubber packing-band *v*, forms a more perfect resistance to the escaping gases than if the joint opened inwardly, for obvious reasons. The bar *C*, from its peculiar construction, serves as a handle for the cask or vessel, as well as a means of fastening down the lid, thus economizing in the cost of construction and in the time of performing the operation of locking, which is facilitated by the peculiar method of applying the hand-screws *h s*.

I am aware that devices for fastening air-tight vessels for the purpose specified have been employed; but I am not aware that the device described and claimed in this specification has ever been used for the designated purpose prior to the time of filing this my application; hence I do not claim, broadly, a device for closing air-tight vessels; but

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

1. In a device for closing and handling air-tight vessels for emptying privy-vaults, sinks, and cesspools, the combination of ears *e*, cask *b*, cast or malleable bar *C*, with lid *l*, having iron straps 1 and 2, and rubber *v*, forming joint *j*, for hermetically closing air-tight vessels, substantially in the manner, and for the purpose set forth.

2. In a device for closing and handling air-tight vessels for emptying privy-vaults, sinks, and cesspools, the combination of the cross-bar *C*, having handle *h*, hand-screws *h s*, and saddle-shaped notches *d*, with ears *e*, lid *l*, and cask *b*, substantially in the manner and for the purpose set forth.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 3d day of March, A. D. 1885.

ANDREW EVANS. [L. S.]

Witnesses:

OLIVER C. RICE,
A. H. DICKEY.