

(No Model.)

H. C. CAMPBELL.
CLOSURE FOR BARRELS, &c.

No. 518,052.

Patented Apr. 10, 1894.

Fig. 3.

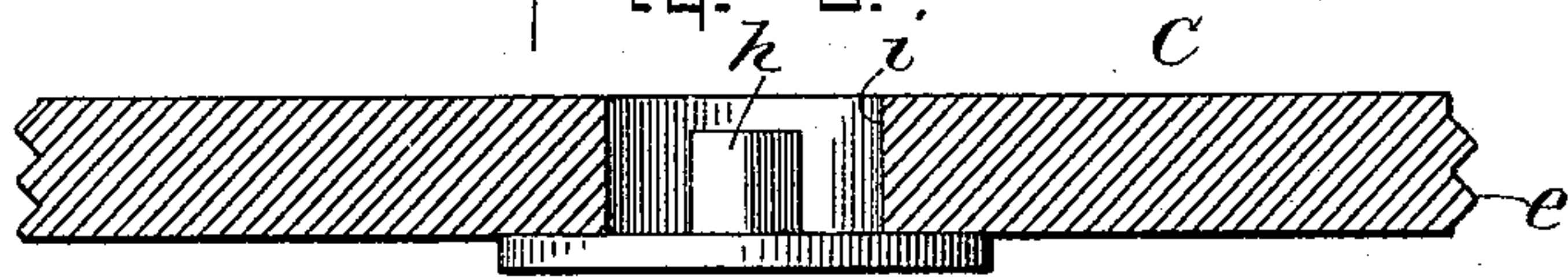


Fig. 1.

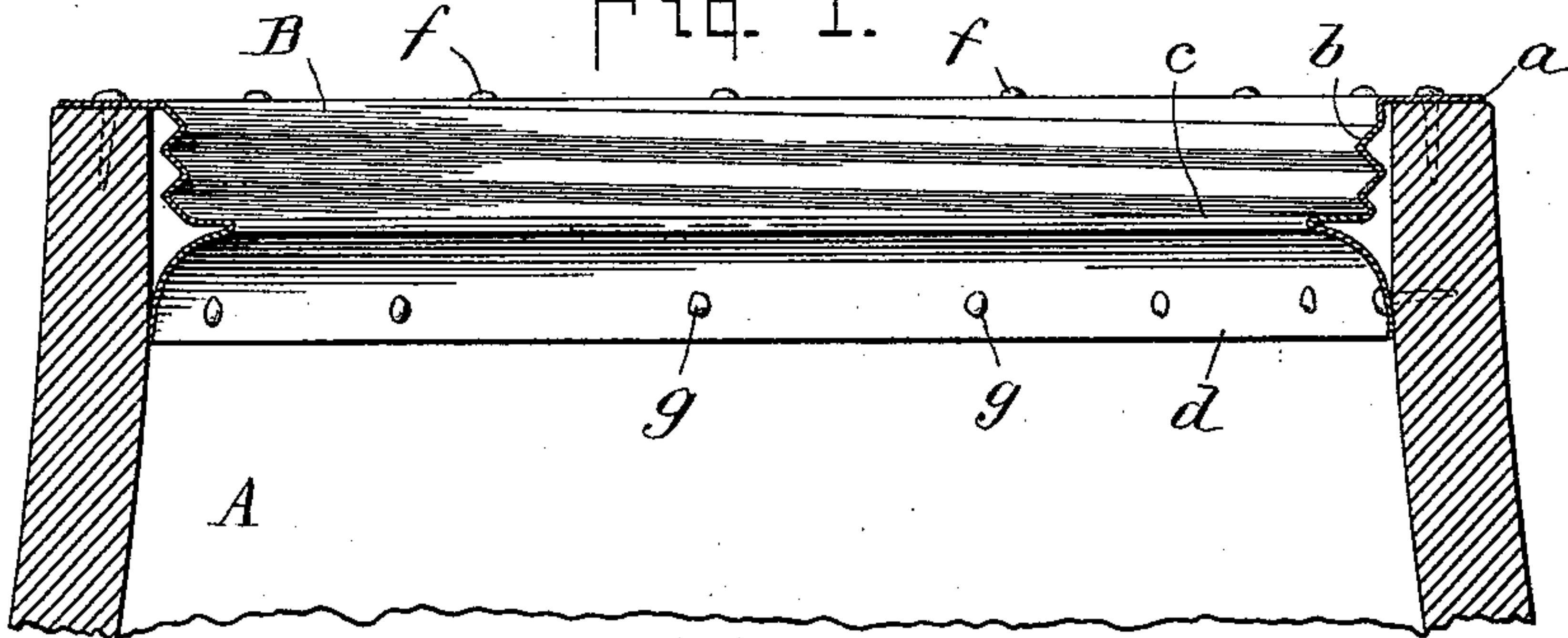


Fig. 2.

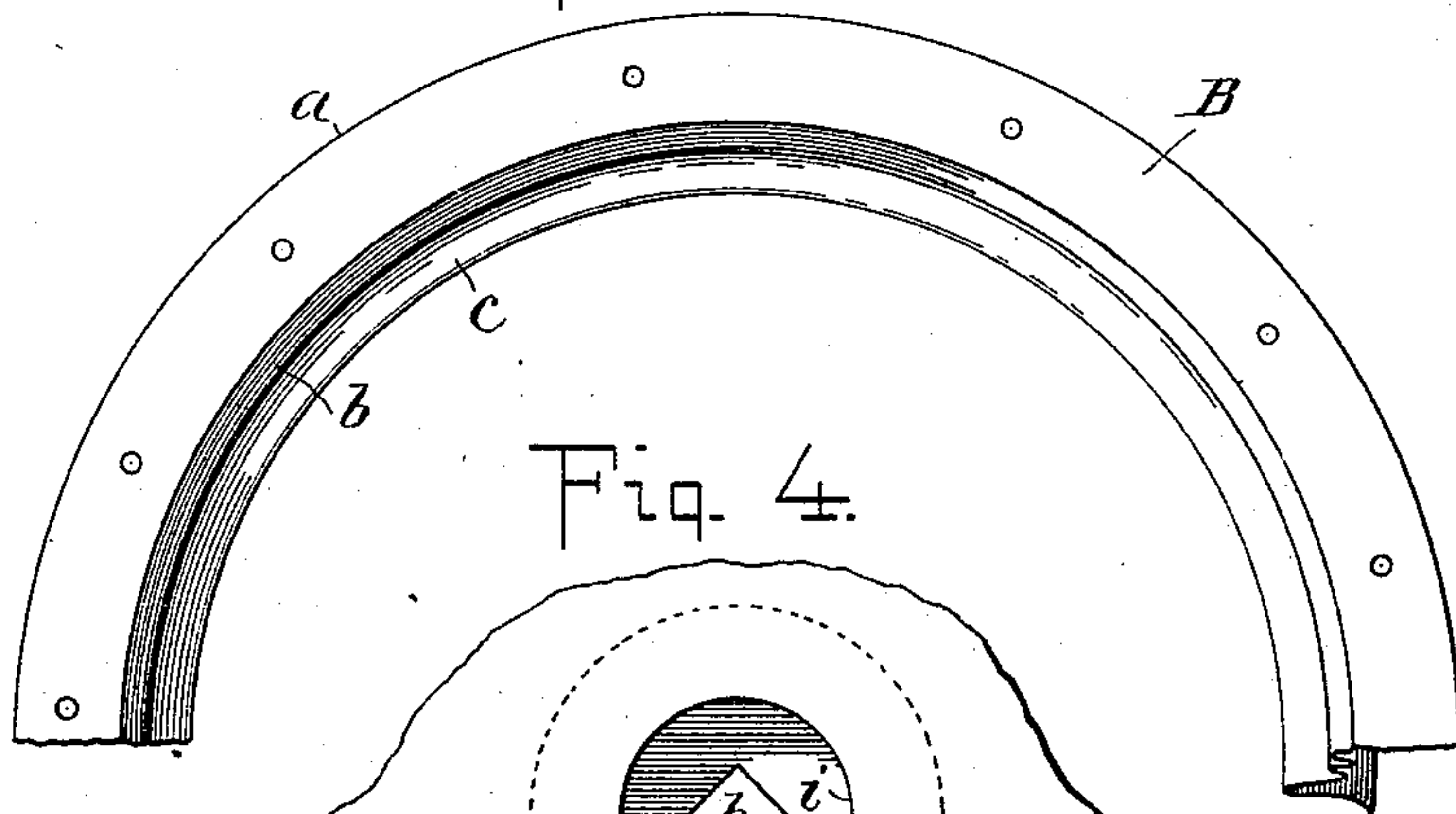
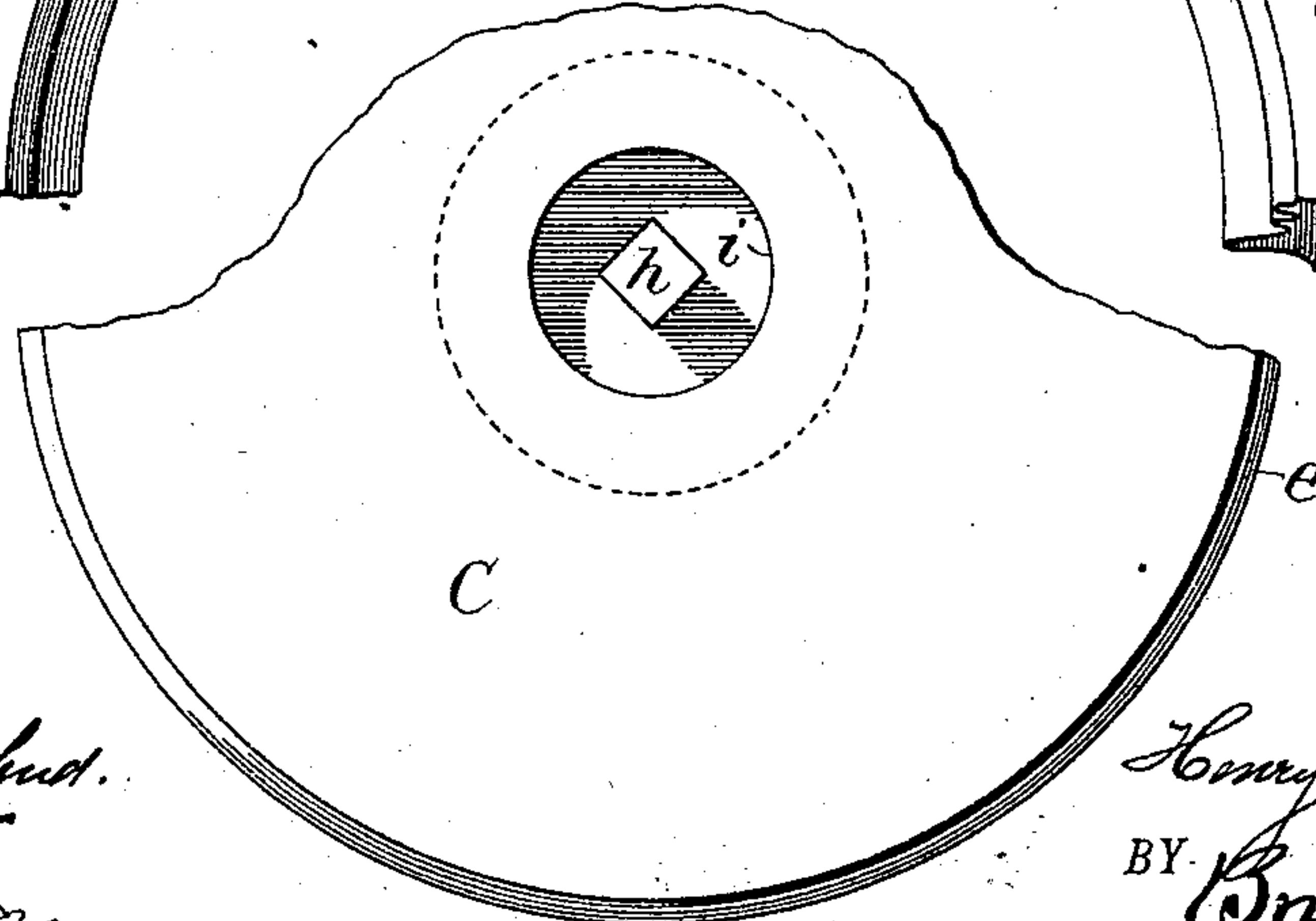


Fig. 4.



WITNESSES:

Wm. B. Stephens.

Geo. C. Moore

INVENTOR

Henry C. Campbell,

BY *Briesen & Knautz*

ATTORNEYS

UNITED STATES PATENT OFFICE.

HENRY C. CAMPBELL, OF TARRYTOWN, NEW YORK, ASSIGNOR TO WILLIAM N. CAMPBELL, OF SAME PLACE.

CLOSURE FOR BARRELS, &c.

SPECIFICATION forming part of Letters Patent No. 518,052, dated April 10, 1894.

Application filed February 10, 1894. Serial No. 499,706. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. CAMPBELL, a resident of Tarrytown, Westchester county, State of New York, have invented certain new and useful Improvements in Closures for Barrels, &c., of which the following is a specification.

My invention relates to closures for barrels, kegs and analogous receptacles, and has for its object to produce a device which will securely close the apertures in such vessels and which will at the same time be simple, cheap and durable.

My invention is especially applicable to paint-kegs and other receptacles designed for the storage of heavy liquid or semi-liquid materials, and which require a firm closure.

My invention consists in the construction herein set forth, illustrated in the accompanying drawings, and more particularly pointed out in the claims together with all analogous structures which, in view of the prior art, may justly be regarded as equivalent structures.

Referring to the accompanying drawings forming part hereof,—Figure 1 is a broken away central longitudinal section of a keg or barrel showing my invention applied thereto; that is to say, one member of the closure. Fig. 2 is a broken away plan view of the ring hereinafter referred to. Fig. 3 is a central vertical section of the cover or head of the keg forming the other member of the closure. Fig. 4 is a broken away plan view of the same showing also in detail the key-post which forms a means for removing the head from the keg or barrel, as will more fully hereinafter appear.

In the drawings A is a keg or barrel of suitable construction. This barrel may be of any of the usual forms or varieties, but I prefer to apply my improved closure to the keg described in my application, Serial No. 499,703, filed February 10, 1894, the invention being especially applicable thereto. One end of this keg may be headed up in the usual manner. The other end, which is shown in the drawings, has the inside face of the end edges cut away smoothly, as shown, to accommodate the diameter of the ring B, and to allow the same to be readily inserted into the keg. This

ring B, which is of sheet or other thin material, preferably metal, consists of a flange portion *a*, a downwardly depending portion *b* having a screw thread formed therein, and having a projecting flange, bead or shoulder *c*, from which may depend a curved or inclined lip *d*. The flange, however, may be omitted, if desired, and the lip *d* depend directly from the screw-threaded portion. The lip may likewise be omitted and the ring may terminate in a flange or bead. This ring overlaps the end of the keg and extends into the mouth thereof, and may be secured by a series of tacks *f f* passing through the flange *a*, as shown, or the flange *a* may be provided with suitable fastening points or strips formed integral therewith, which may be bent so as to lap over the sides of the keg and be secured from the outside by tacks or an end hoop. When the lip *d* is used, it is made to lie snugly upon the inside circumference of the keg, and is secured thereto by tacks *g g* or any other suitable fastening means which may be made integral with the lip, if desired.

C is the head or cover for the keg and is screw-threaded on its edge *e* to correspond with the screw-threaded portion *b* of the fastening ring. This cover enters the fastening ring, and is screwed therein until it bears against the flange *c*, the key-post *h* situated in an aperture or recess in the head or cover C serving to co-operate with a suitable key to facilitate the insertion or removal of the head from the ring B. Instead of this key-post and key, any other analogous equivalent means may be employed to screw the cover into or out of position.

I have shown the ring and cover as closing the end of a keg or barrel, but it will be readily understood that the device may be employed to close a bung hole or other aperture in a vessel, and when so employed slight modifications in the structure may be made to adapt it to existing needs and circumstances, nor do I wish to be understood as confining myself to the precise construction shown, as the device may be varied within the skill of a competent mechanic without departing from the spirit of my invention.

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

1. A closure ring for vessels consisting of a flange *a*, a downwardly depending screw-threaded portion *b*, and a shoulder or bearing *c* at the lower edge of the screw-threaded section, substantially as described.

2. A closure ring for vessels, consisting of a flange *a*, a downwardly depending screw-threaded portion *b*, a shoulder or bearing *c*, and a curved lip *d*, substantially as described.

3. The combination with a vessel, of a closure ring entered into an aperture in the vessel, and having a flange overlapping the edge of the aperture, and a screw-thread formed in the body of the ring, a shoulder at the lower edge of the said threaded section together with a cover having its edge screw-threaded

to correspond with the thread of the ring, substantially as described.

4. The combination with a vessel, of a closure ring entered into an aperture in the vessel, and having a flange *a* overlapping the edge of the aperture, a screw-threaded portion *b*, a shoulder *c*, and a lip *d* fitting against the wall of the aperture, together with a cover having its edge screw-threaded to correspond with the thread of the ring, substantially as described.

HENRY C. CAMPBELL.

Witnesses:

JAMES L. SUYDAM,

GEO. E. MORSE.