

(No Model.)

G. F. THOMPSON.

REMOVABLE HEAD OR COVER FOR BARRELS, &c.

No. 603,348.

Patented May 3, 1898.

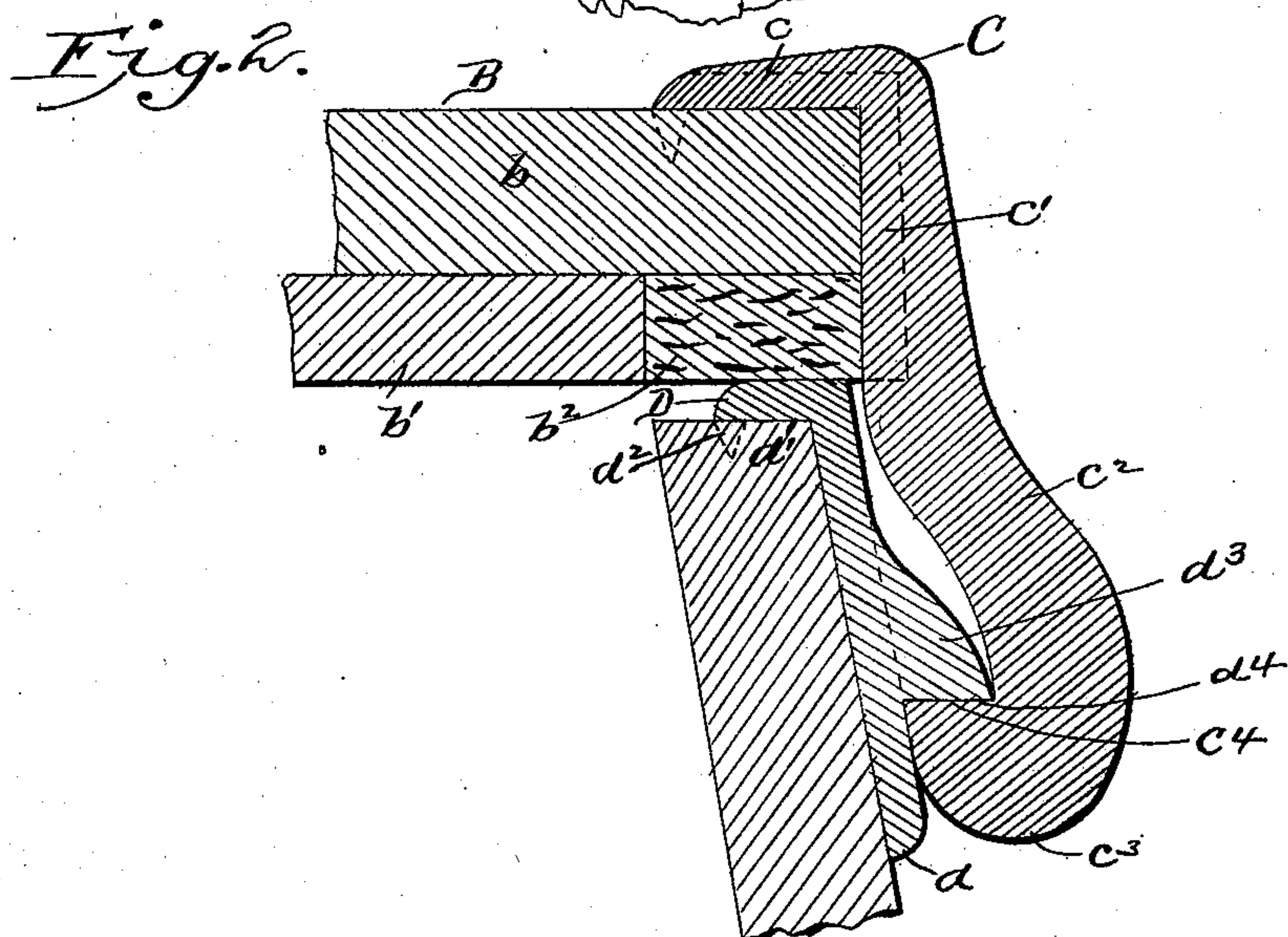
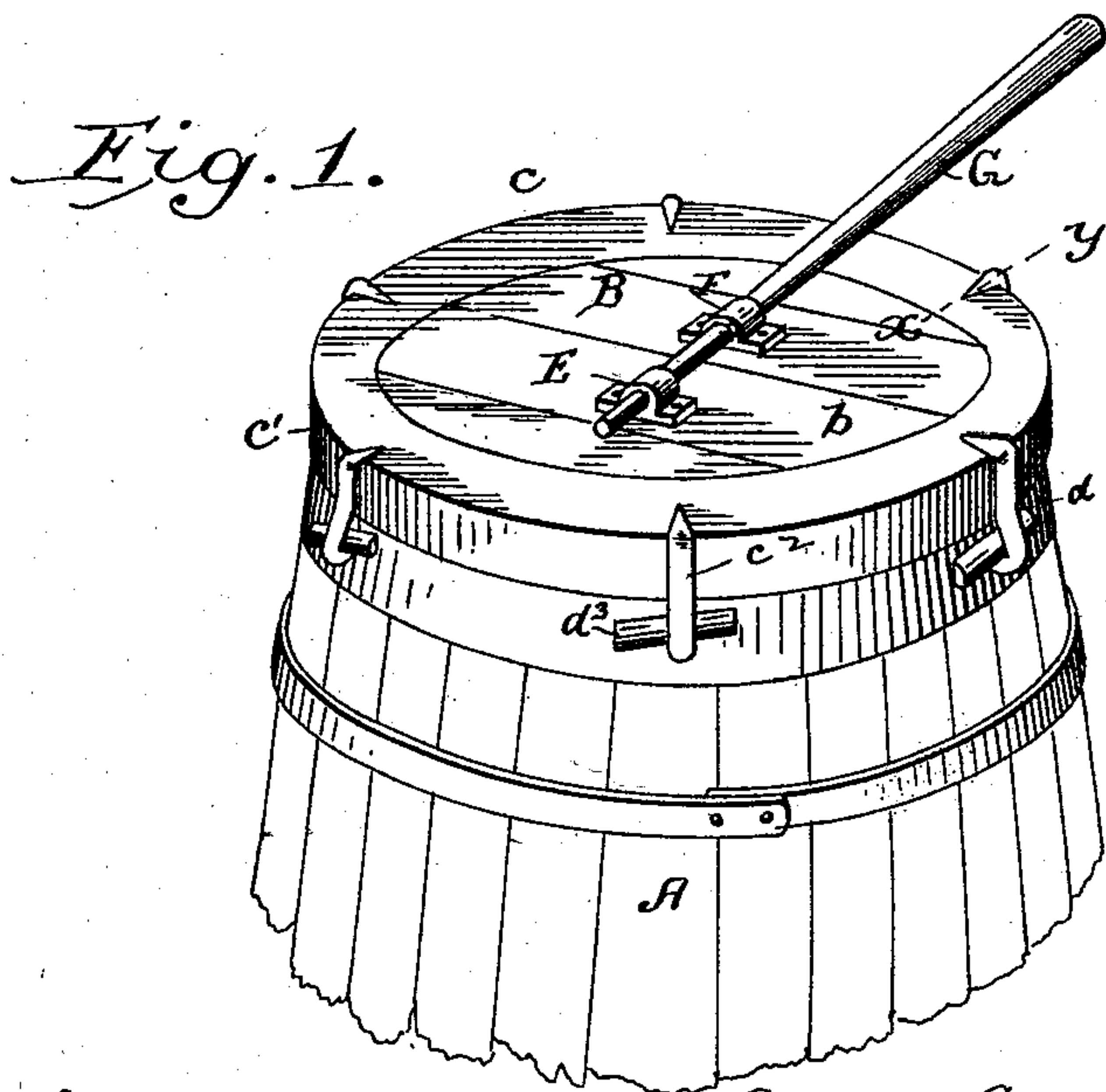
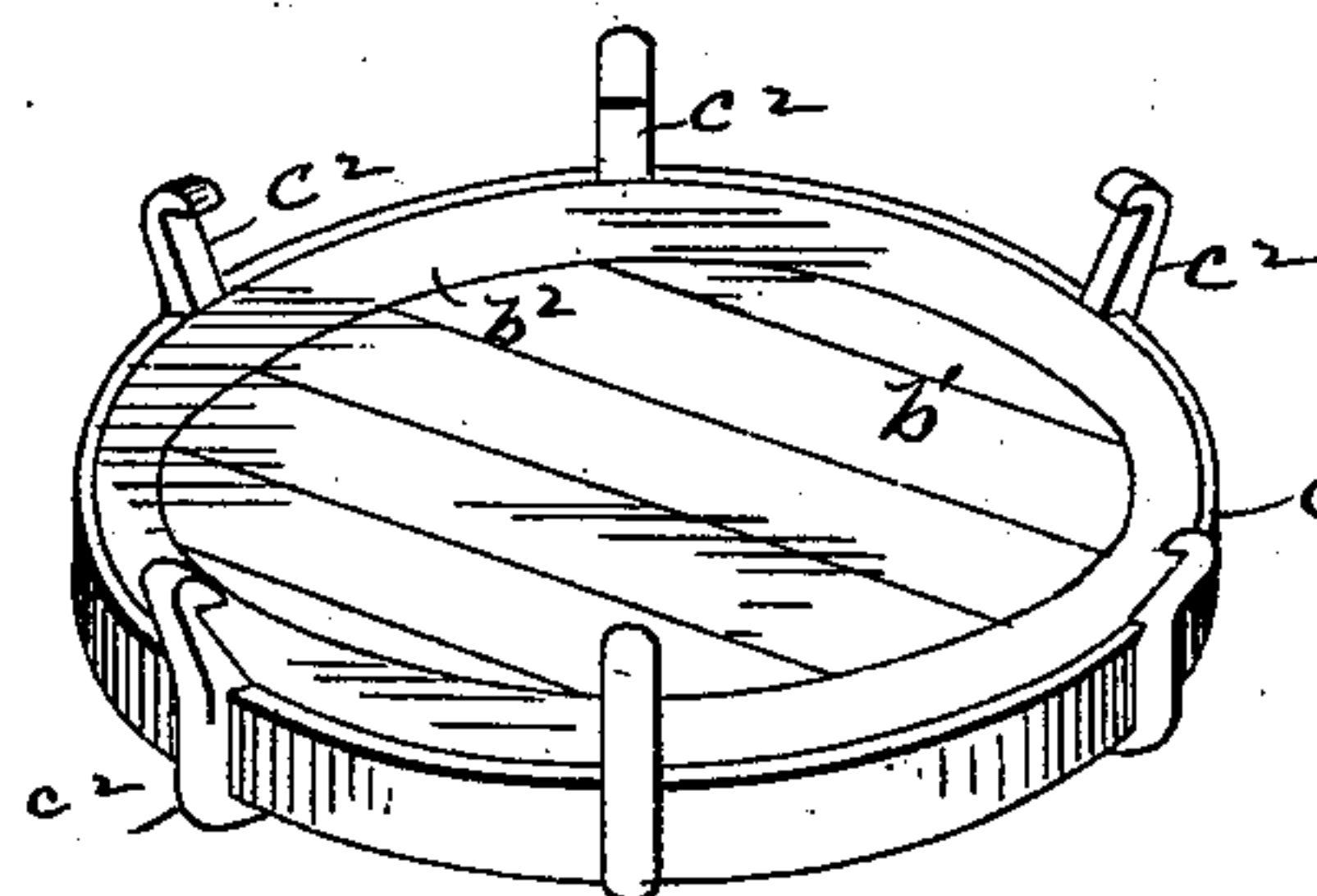


Fig. 3.



WITNESSES

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GEORGE F. THOMPSON, OF OMAHA, NEBRASKA.

REMOVABLE HEAD OR COVER FOR BARRELS, &c.

SPECIFICATION forming part of Letters Patent No. 603,348, dated May 3, 1898.

Application filed July 20, 1897. Serial No. 645,203. (No model.)

To all whom it may concern:

Be it known that I, GEORGE F. THOMPSON, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Removable Heads or Covers for Barrels and Vessels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in a removable head or cover for barrels and similar vessels.

An object of the invention is to provide such a head or cover which may be readily placed upon and removed from such vessels and which will prove air-tight and secure when in place.

A further object is simplicity and cheapness in construction and ease in operation.

The invention consists of further detailed improvements, which will be more fully pointed out in the specification and claim.

Reference is to be had to the accompanying drawings for a clearer and more comprehensive understanding of the invention.

Figure 1 is a perspective view of the device applied to the head of a barrel, a lever being shown in position for manipulating the same either to secure the head in place or to remove the same. Fig. 2 is a sectional view of a securing device taken on line $x y$, Fig. 1. Fig. 3 is a view of the barrel head or cover inverted and removed from a vessel.

In the drawings, A refers to the upper part of a barrel or storing vessel, the lower part being broken away.

B refers to the improved barrel head or cover, composed of the head proper or cover b , made of suitable material, such as wooden strips, properly fastened together and of circular form, of suitable size, having an inner and reinforcing cover b' nailed or suitably secured to its bottom, and a rim C, of metal, preferably passing around the outer edges of these two covers and composed of two flanges, one, c , a horizontal flange extending over the top of the cover b a short distance from its edge, and another, c' , depending below a short distance the bottom of the lower cover b' and contacting with outer edges of

the covers, as shown in Fig. 2. This rim may be secured to the covers by screws or in any convenient manner and has at regular intervals depending hooks c^2 , with inwardly-turned lower ends c^3 , these hooks projecting outwardly slightly, so as to not interfere with placing the cover or head upon a vessel.

The lower cover b' of the barrel is cut away around its circumference a slight distance, and a rim of cork or rubber b^2 is secured to the two covers in any suitable manner to take its place, as shown, for a purpose hereinafter described.

D is a metallic hoop or band secured to the upper and outer edge of the barrel or vessel, and its upper edge d' is turned inwardly and has a depending edge d^2 , which may be forced into the upper ends of the staves of the vessel, or it may be extended over the upper edges of the staves and be forced into the inner top ends of the staves, if found preferable, and the hoop proper, d , may be screwed to or otherwise suitably fastened to the outer surfaces of the staves of the vessel. At regular intervals along the outer surface of this hoop are secured thereto or cast thereupon suitable tapering lugs d^3 , their lower surfaces being smooth and slightly inclined inwardly, and said surfaces being inclined also slightly upwardly, as shown in Fig. 1.

E is a suitable ring secured to the center of the outside of the barrel-cover, and adjacent thereto is another and similarly-secured ring F, into which a lever G is inserted to manipulate the cover or head.

The operation of the device is as follows: The cover or head is placed upon the top of a cask or vessel having a rim D secured thereto in such a manner that the depending hooks will fall between the lugs d^3 . The lever G is then inserted in the rings E and F on the cover-head and the lever turned to bring the depending hooks C into contact with the upper ends of the inclined lugs, so that the upper surfaces c^4 of the hooks will take under the lower smooth surfaces d^4 of the lugs. As the lever is further turned from right to left hooks are drawn downwardly on the inclined surfaces of the lugs, and the cork or rubber portion of the lower cover contacts with the upper or inwardly-inclined part of the hoop d , and by continuing to turn said lever the

barrel head or cover is forced tightly and securely against the top of the vessel. By inserting the lever in said rings and turning the lever from left to right the cover is as
5 easily removed.

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

10 A removable head or cover for barrels, casks, and vessels comprising a cover proper, having a metallic rim encircling and embracing the same and rigidly secured to the cover, depending hooks, at regular intervals, upon
15 said rim, a rim of elastic material secured to the lower edge of the cover proper, a metallic hoop secured to the upper ends of the ves-

sel's staves, having an inwardly-turned portion or edge, the extremity of the latter being driven into the staves, lugs having smooth lower surfaces inclined upwardly secured to
20 the outside of the rim, at regular intervals, under which said hooks engage, rings upon the top of the barrel-cover, and a lever insertible therein to revolve the head or cover to secure the same upon the vessel, substan-
25 tially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEO. F. THOMPSON.

Witnesses:

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