

No. 670,158.

Patented Mar. 19, 1901.

J. MARTIN.
BARREL HEAD.

(Application filed June 7, 1900.)

(No Model.)

Fig. 2.

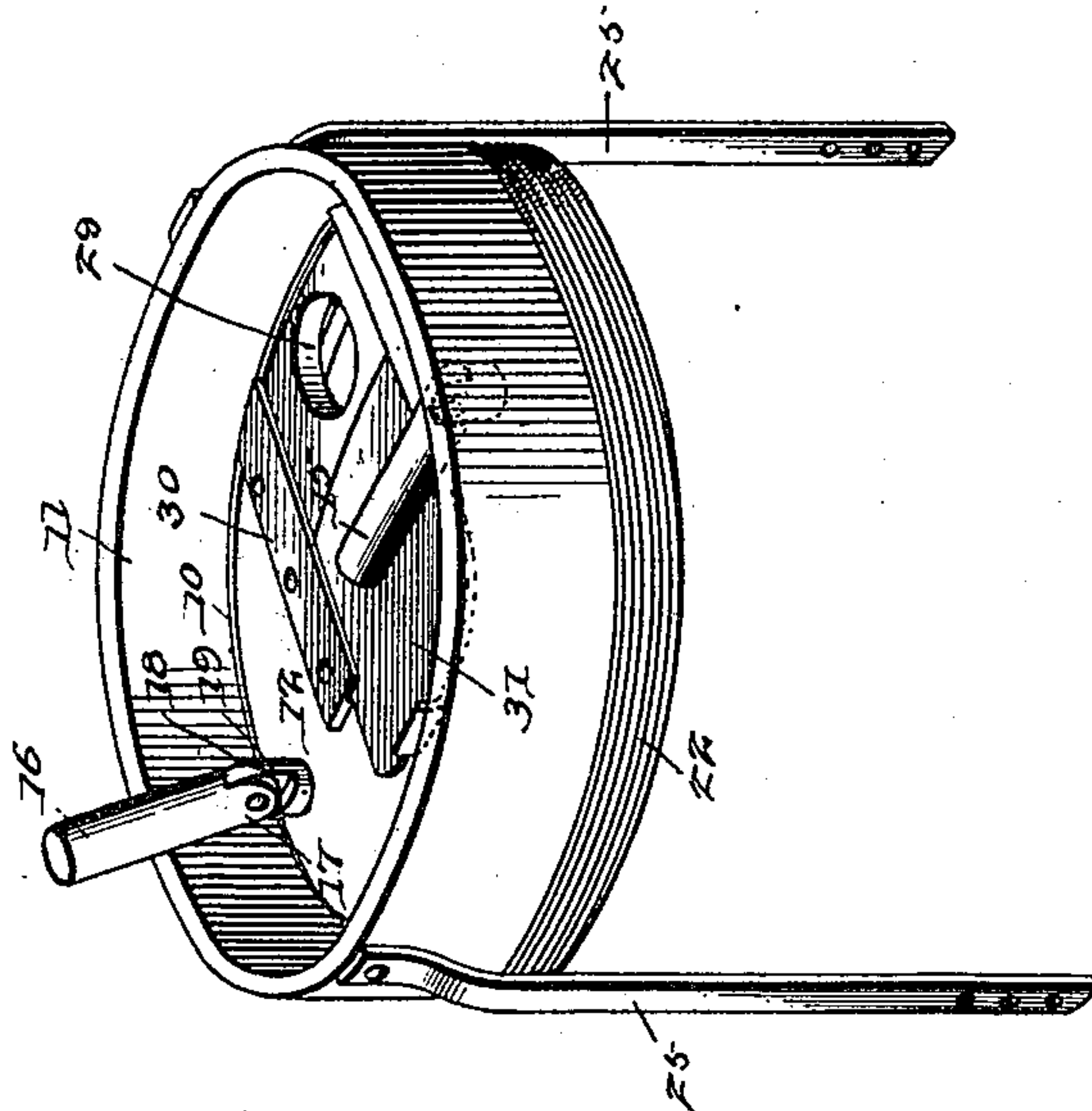
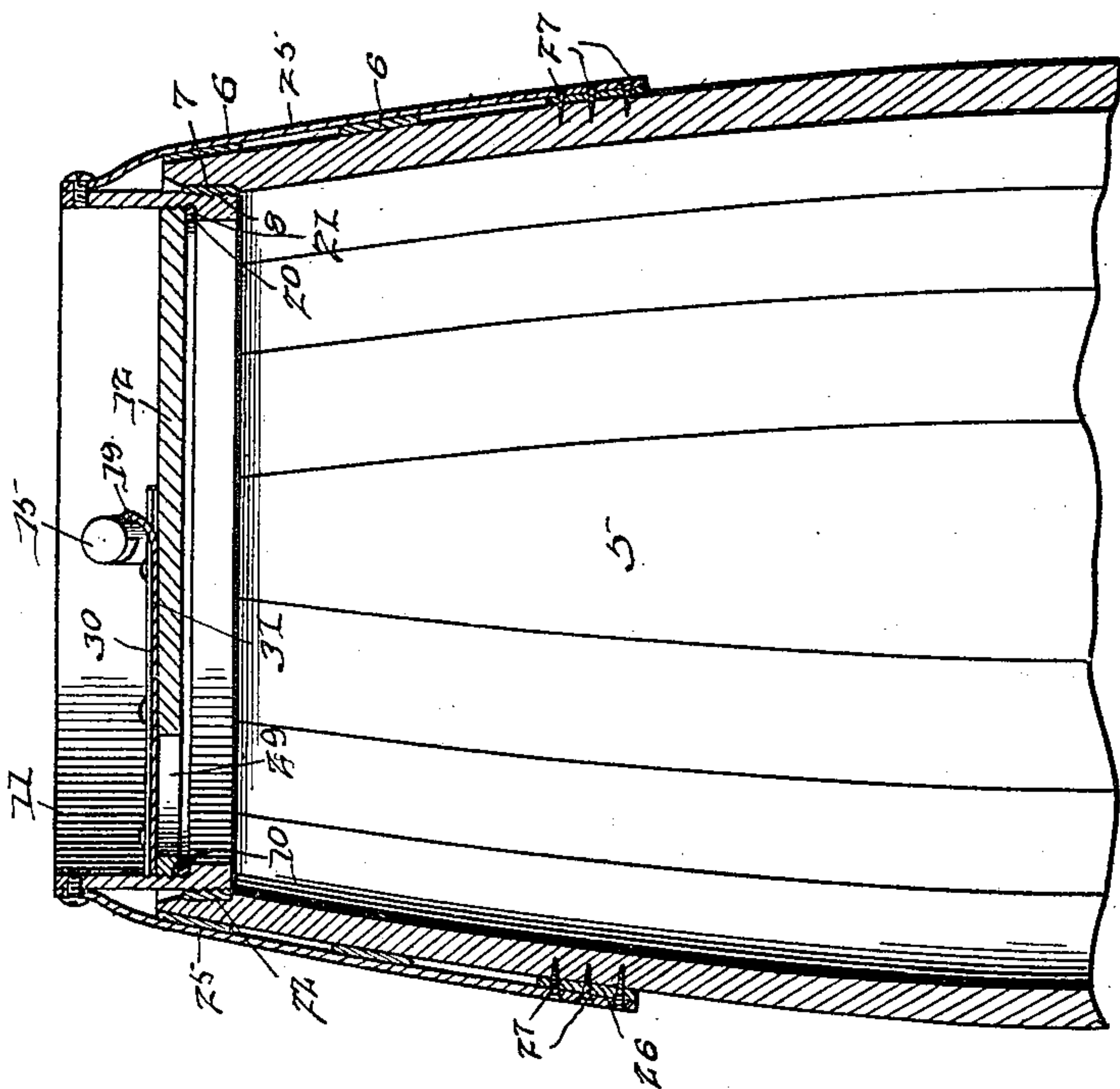


Fig. 1.



Witnesses
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JOSEPH MARTIN, OF DAVENPORT, IOWA.

BARREL-HEAD.

SPECIFICATION forming part of Letters Patent No. 670,158, dated March 19, 1901.

Application filed June 7, 1900. Serial No. 19,455. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH MARTIN, a citizen of the United States, residing at Davenport, in the county of Scott and State of Iowa, have invented a new and useful Barrel-Head, of which the following is a specification.

This invention relates to barrels, casks, &c., and more particularly to the closures thereof, the object of the invention being to provide a construction which may be readily applied and removed and which when in place will act to strengthen the barrel or cask, further objects and advantages of the invention being evident from the following description.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in both views, Figure 1 is a vertical central section of one end portion of a barrel and showing the application of the present invention thereto. Fig. 2 is a perspective view of the complete closure.

Referring now to the drawings, 5 represents a portion of a barrel or cask the staves of which are bound in proper mutual relation through the medium of the usual hoops 6. At the head end of the barrel or cask instead of forming the usual annular groove to receive the head there is secured a metallic ring 7, held in place in any suitable manner, and which ring is provided with interior screw-threads 8, as shown. The removable closure is adapted for engagement with the interior threads 10 of a second ring 11, said closure being in the form of a disk 12, having a threaded periphery which engages said ring 11. The ring 11 is threaded interiorly at one end only, the remaining portion of the ring having a greater diameter than the threaded portion, whereby the closing-disk 12 may be passed freely downward and into the ring until it has reached the interior threads thereof, after which it may be screwed into engagement with said threads, and to facilitate this screwing of the disk there is provided a pair of handles 15 and 16. Each of these handles is halved at one end to form an ear 17, which lies against the ear 18 of a corresponding stud 19 upon the disk 12, these studs being disposed at diametrically opposite points of the disk and so positioned that the handles in their pivotal movement will operate in a com-

mon plane, including the axis of the disk. These handles when moved to their limits in one direction lie against and project beyond the edge of the ring 11, to be grasped by the operator in applying or removing the disk. When the disk is in operative position, the handles are pivotally moved to lie against the upper face of the disk and within the inclosure of the ring 11. The disk 12 when in its operative position rests against a gasket 20, disposed upon a shoulder 21 on the inner face of the ring 11 and just below the interior threads thereof.

Upon the outer face of the ring 11 and opposite to the flange which forms the shoulder 21 is formed screw-threads 22, which are adapted to engage the threads of the ring 7 to hold the ring 11 and the parts carried thereby in position with respect to the barrel or cask.

It is of course necessary that some means be provided to prevent unscrewing of the ring 11 from the ring 7, and for this purpose metallic straps 25 are riveted at their outer ends to diametrically opposite points of the ring 11, and which straps extend rearwardly and lie with their inner ends upon one of the hoops 26 of the barrel or cask, to which they are secured by screws 27, which are passed there-through and into the material of the staves. The straps lie also against the hoops adjacent the neighboring end of the barrel or cask, and thus not only do they hold the ring against displacement, but they act to brace the entire structure adjacent thereto.

In the disk 12 is formed the usual bung-hole 29, and in order to prevent access of foreign matter therethrough when the bung is withdrawn guide-plates 30 are disposed parallel at opposite sides of the bung-hole, and with them is slidably engaged a gate 31, which may be operated to cover and uncover the hole.

It will be seen that with the present construction there is provided a simple and efficient closure for the barrel or cask and one which may be readily applied and removed, the structure being such that it is low in price, while it accomplishes the several functions for which it is designed.

In practice various modifications may be made and any suitable materials and propor-

tions may be used for the various parts without departing from the spirit of the invention.

What is claimed is—

- 5 1. A device of the class described comprising a ring adapted for engagement with a barrel and having interior threads, a disk having peripheral threads for engagement with the threads of the ring, studs upon the
10 disk, handles pivoted to the studs to lie alternately against the disk and within the inclosure of the ring and to lie with their ends beyond the ring, a bung-hole in the disk, and a closure for the hole, carried by the disk.
- 15 2. The combination with a barrel having threads, of a ring engaged with the threads, a closure for the barrel removably engaged with the ring, and straps fixed to the ring and to the barrel in the rear of the ring to
20 hold the ring against displacement from the threads of the barrel.

3. The combination with a barrel having threads, of a threaded ring engaged with the threads, of the barrel, a threaded closure engaged with the threads of the ring, and 25 straps connected to the ring and having their ends fixed with the barrel through a hoop thereof in the rear of the ring.

4. The combination with a barrel having interior threads, of a ring engaged with the 30 threads, straps connected to the ring and to the barrel in the rear of the ring, and a closure for the barrel removably engaged with the ring.

In testimony that I claim the foregoing as 35 my own I have hereto affixed my signature in the presence of two witnesses.

JOSEPH MARTIN.

Witnesses:

A. E. CARROLL,
A. B. YOUNG.