

S. A. KNAPP.
INTERLOCKING REMOVABLE BARREL HEAD.
APPLICATION FILED MAR. 19, 1914.

1,151,525.

Patented Aug. 24, 1915.

Fig. 1

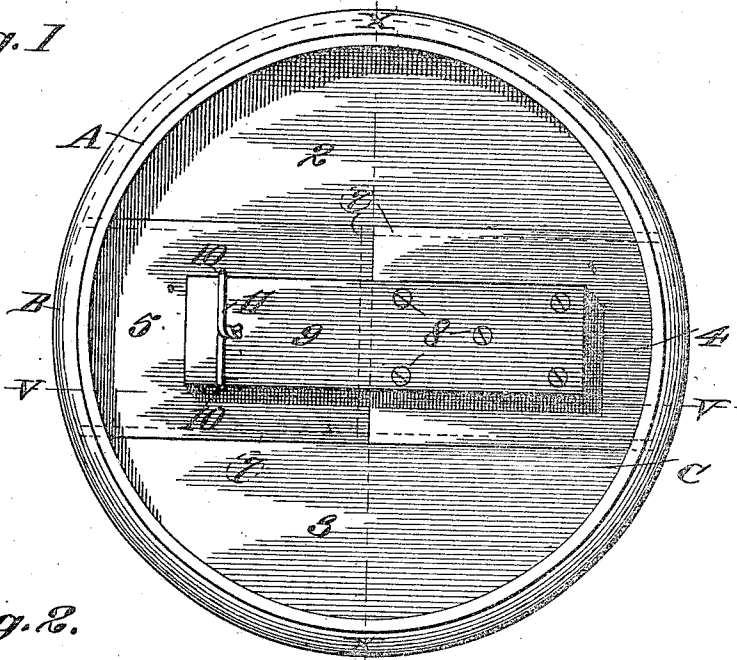


Fig. 2.

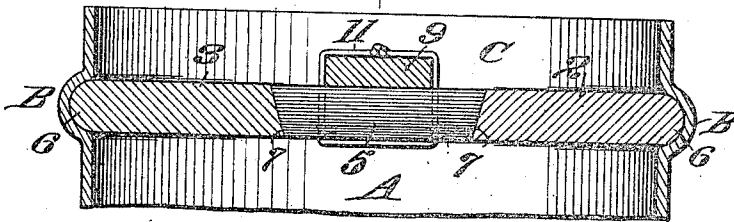
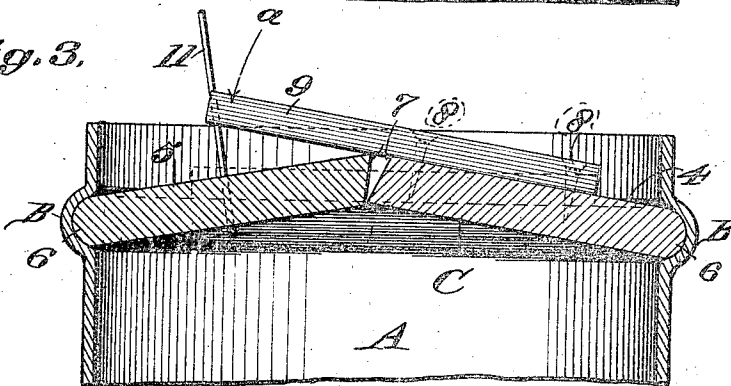


Fig. 3.



WITNESSES:

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SEWELL A. KNAPP, OF SAN FRANCISCO, CALIFORNIA.

INTERLOCKING REMOVABLE BARREL-HEAD.

1,151,525.

Specification of Letters Patent.

Patented Aug. 24, 1915.

Application filed March 19, 1914. Serial No. 825,766.

To all whom it may concern:

Be it known that I, SEWELL A. KNAPP, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Interlocking Removable Barrel-Heads, of which the following is a specification.

This invention relates to an interlocking removable head for barrels, tubs, buckets, drums, etc.

The objects of the invention are, first, to provide a simple, substantial, cheaply manufactured interlocking barrel head, which is particularly adapted for application to metal barrels and the like, or, in other words, to barrels in which the crozes cannot be expanded; second, to provide an interlocking removable barrel head which can be quickly applied or removed; and, third, to provide a simple form of lock for keeping the several parts of the head in interlocked position.

Other objects will hereinafter appear.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a plan view of the barrel head. Fig. 2 is a section on line $x-x$, Fig. 1, showing the top end of the barrel. Fig. 3 is a similar view on line $v-v$, Fig. 1.

Referring to the drawings, A indicates the upper end of a non-expandible barrel, or the like; B indicates the croze formed in same; and C indicates the removable head which forms the subject-matter of the present application.

The barrel head is in this instance sectional and consists of four separate parts which are adapted to be interlocked and which are also adapted to be locked in their interlocked positions. The four separate parts comprising the head are as follows: two semicircular sections 2 and 3 and a central section which is divided into two separate pieces, as indicated at 4 and 5.

Referring to Fig. 2, it will be seen that the outer edges of the several sections are chamfered and chined in the usual manner, as indicated at 6, to fit the croze of the barrel. The joints between the semicircular sections 2 and 3 and the central section, which consists of the separable pieces 4 and 5, are slightly tapered, as indicated at 7,

for the purpose of wedging the several pieces into tight engagement with the croze of the barrel and also to prevent the separate pieces of the central section from falling into the barrel.

Suitably secured to the central section 4 by nails or any other suitable means, indicated at 8, is a locking bar 9, and extending through perforations 10 in the opposite section is a wire or like means 11 by which the locking bar may be secured when the parts have been pressed down into the interlocked position indicated in Figs. 1 and 2.

The operation of applying the barrel head will be as follows: The semicircular sections 2 and 3 are first fitted into the croze of the barrel. The ends of the separate sections 4 and 5 are then inserted into the croze of the barrel, between the semicircular sections 2 and 3, in about the position indicated in Fig. 3. Pressure is then brought to bear, in the direction of arrow a , on the outer end of the locking bar 9 to force the separable sections 4 and 5, of the central section, down into a horizontal position between the semicircular sections 2 and 3. The downward movement of these separate sections causes the tapered sides 7 to act as a wedge which will force the several separate parts into tight engagement with each other and also with the croze of the barrel. Bar 9 may then be locked by twisting the ends of wire 11 over the top of the bar, as indicated in Fig. 2. The division of the central section into two separate pieces is of great importance, as it can readily be seen that it would otherwise be impossible to insert the ends of said section into the croze of the barrel.

The materials and finish of the several parts of the barrel may be such as experience and judgment of the manufacturer may dictate. A barrel head constructed as here shown is simple in construction and may be quickly applied to or removed from the barrel.

I wish it understood that any other suitable locking means, capable of securing the bar 9 in engagement with section 5, may be used, and I further wish it understood that I do not wish to limit myself to the specific design and construction here shown.

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

The combination with a barrel having a

croze, of a head comprising a pair of spaced segments fitting the croze and an intermediate expansible member cooperating with the segments, said expansible member consisting of two coacting sections with adjacent correspondingly beveled ends, a locking bar secured to one section and over-hanging the other, and means acting on the over-hanging end and directly on the unattached section for holding the expansible member in the plane of the segments.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

SEWELL A. KNAPP.

Witnesses:

C. H. TEAFF,
U. S. WAUGH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."