

J. W. BRAINARD.
WOODEN BARREL OR KEG AND HEAD THEREFOR.
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914,787.

Patented Mar. 9, 1909.

Fig. 1.

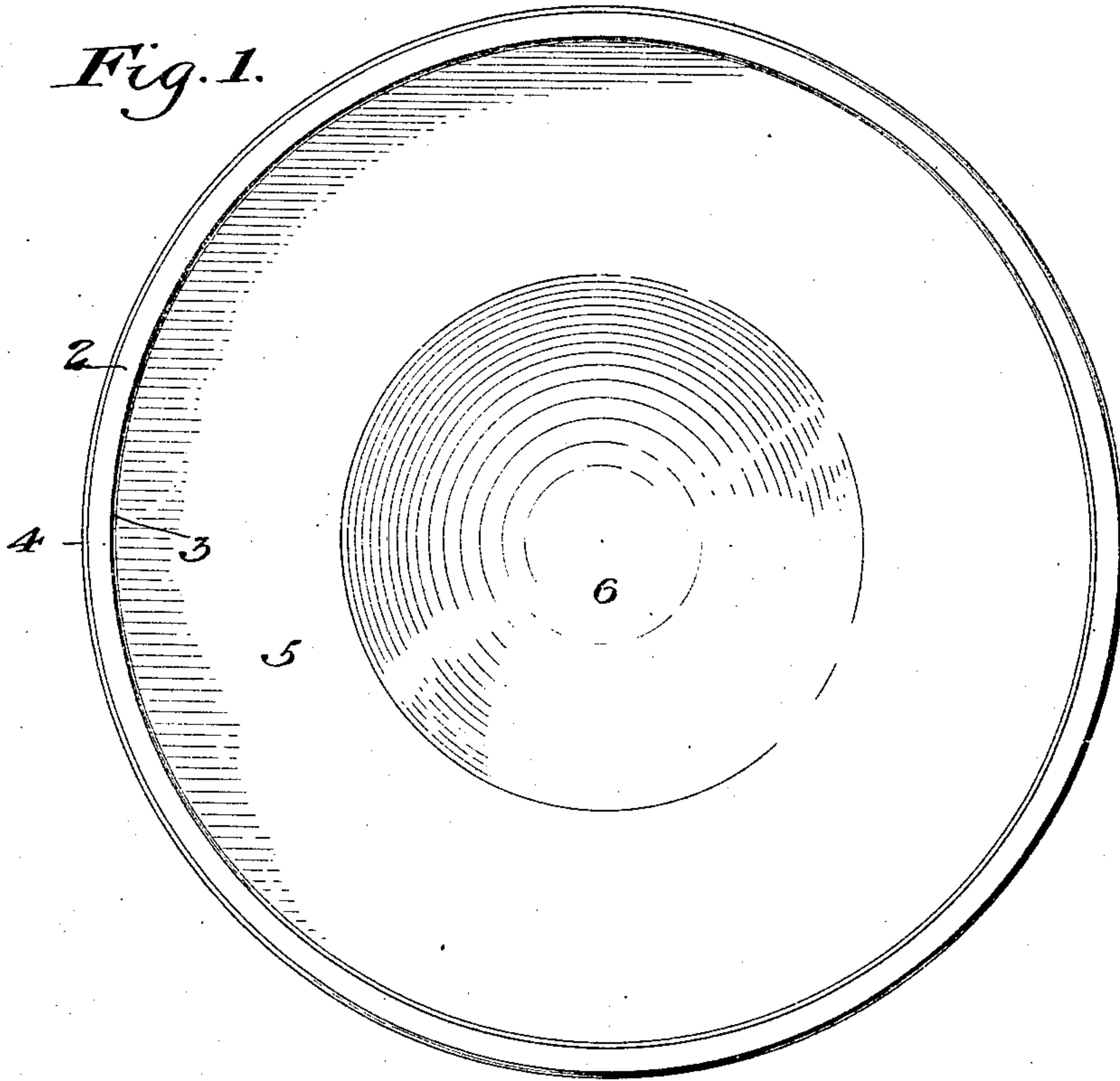


Fig. 2.

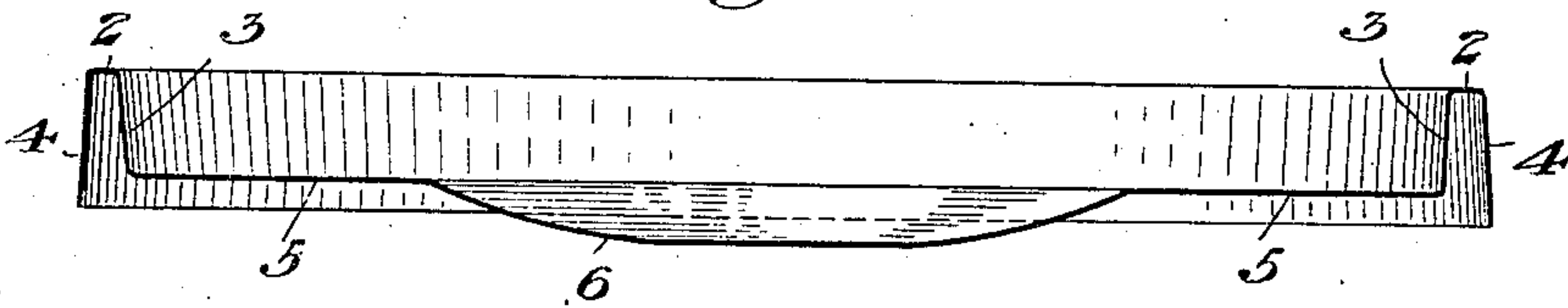
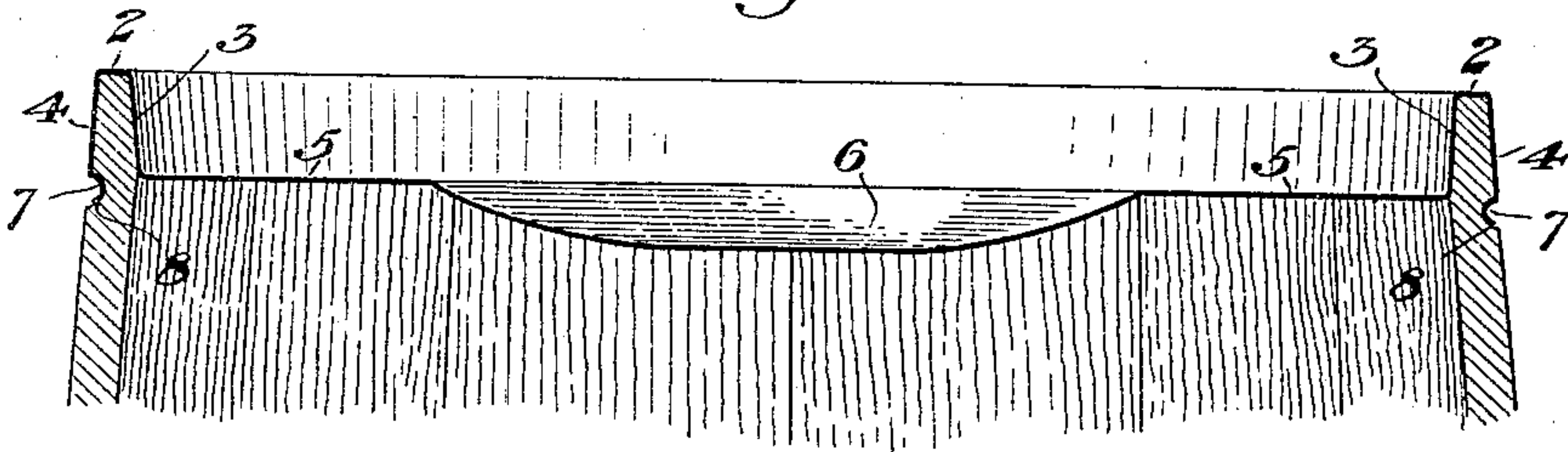


Fig. 3.



WITNESSES

Richard D. Little.
I. A. Comer.

INVENTOR

J. W. Brainard
by Nathaniel H. H. per
his atty.

UNITED STATES PATENT OFFICE.

JAMES W. BRAINARD, OF PITTSBURG, PENNSYLVANIA.

WOODEN BARREL OR KEG AND HEAD THEREFOR.

No. 914,787.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed November 4, 1904. Serial No. 231,388.

To all whom it may concern:

Be it known that I, JAMES W. BRAINARD, of Pittsburg, Allegheny county, Pennsylvania, have invented a new and useful Improvement in Wooden Barrels or Kegs and Heads Therefor, of which the following is a specification.

The prime object of the present invention is to equip an ordinary barrel or keg made up of wooden staves, with an improved head which is detachably held in place in a simple and effective manner, without the employment of extraneous fastening means, and is arranged to stiffen and strengthen the barrel without detracting from any of its essential features.

It is proposed to form the head from a single blank of sheet metal, and to shape the same so as to permit of the convenient application and removal thereof without making any material change or alteration in the barrel. In this connection, the head is arranged to embrace the chime of the barrel or keg so as to incase the same in a metal shield, which protects the extremities of the staves when handling the barrel or keg, particularly when rolling the same.

Ordinarily, a wooden barrel or keg is provided with an internal annular groove for the reception of the peripheral edge of the head. To remove the head of an ordinary barrel or keg, it is necessary to first break in the same which frequently causes damage to the contents of the barrel. The present invention effectually overcomes this disadvantage, as it permits of the convenient removal of the head without breaking or damaging the latter or the barrel. Moreover, the head is capable of repeated use, as it is neither destroyed or damaged by the removal thereof.

With these and other objects in view, the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings and particularly pointed out in the appended claims, it, of course, being understood that changes in the form, proportion, size and minor details may be made within the scope of the claims, without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings: Figure 1 is a plan view of a barrel head embodying the features of the present invention. Fig. 2 is a cross sectional

view of the head, and Fig. 3 is a sectional view taken through one end of a wooden barrel or keg having the present head fitted thereto.

Like characters of reference designate corresponding parts in each of the figures of the drawing.

As hereinbefore indicated, it is proposed to form the improved barrel or keg head of sheet or plate metal, and as indicated in the drawings, it will be seen that the body portion 5 of the head is in the nature of a flat disk, having its central portion depressed or dished at 6, for the purpose of stiffening or strengthening the head, so as to prevent buckling thereof under strains. Around the peripheral edge of the head, the body portion is bent upward, as at 3, thence outward, as at 2, and finally downward, as at 4, producing a peripheral seat or rib which is open at its bottom and has its upright sides 3 and 4 converged upwardly, in accordance with the usual taper of the chime portion of wooden barrel and keg staves. By preference, the outer wall 4 of the seat 2 projects below the plane of the body portion 5 of the head, and in this projected portion there is pressed inwardly an annular crimp or bead 7, which not only stiffens and strengthens the part 4, but is employed to prevent accidental displacement of the head from the barrel.

The application of the head to the barrel or keg will be understood by reference to Fig. 3 of the drawings, wherein has been shown a portion of an ordinary barrel or keg made up of wooden staves of the common or ordinary type, with the exception that the usual internal annular groove is omitted, and an external annular groove 8 is formed in the barrel at the base of the chime. The head is applied to the barrel so as to have the chime received snugly within the annular seat 2, the walls 3 and 4 snugly gripping the chime of the barrel and the inwardly directed crimp or bead 7, which has been pressed in the outer side 4 of the seat 2, is snugly received in the groove 8, thereby to prevent looseness and accidental displacement of the head. Attention will here be directed to the fact that the crimp or bead 7 is formed by the free extremity of the outer side 4 of the peripheral seat, and that the free edge of the bead portion lies wholly

within the groove 8, whereby the outer free edge of the cover does not project beyond the periphery of the barrel but is housed in the groove. The housing of the outer free edge of the cover in the groove in the barrel is very important, because it is thereby housed and cannot become accidentally caught and pried out of the groove as would occur if the free edge of the cover projected externally of the groove. Whenever it is desired to remove the head, all that is necessary is to pry the bead or crimp out of the groove 8, whereupon the head may be quickly removed from the barrel without in any manner injuring the barrel, its contents, or the head. As the head is not injured by its removal, it may be replaced and repeatedly used.

It will now be understood that the chime of the barrel is snugly incased in a metallic shield formed by the annular seat or bead 2, whereby the chime is metal shod and consequently protected from the usual wear and tear thereon in handling the barrel by rolling the same.

By the employment of the present head, it will be noted that the staves are held together without employing the usual terminal hoops, for the reason that the seat or bead 2 holds the staves in place.

Having thus described the invention what is claimed is:

1. A wooden barrel or keg formed of staves having a chime portion with an external annular groove at the base thereof, and a metal head having a peripheral seat snugly embracing the chime with its outer free edge crimped to form an internal annular bead fitting the groove of the barrel to hold the head in place, substantially as described.

2. As a new article of manufacture, a barrel or keg head formed from a flat metal blank having its peripheral portion bent upward, outward and downward to form an annular seat open at its bottom and having an internal annular bead pressed in the outer side of the seat at the outer edge thereof, the upright sides of the seat converging from its open bottom in accordance with the standard taper of the chime of wooden barrels and kegs and the depth of the seat corresponding to that of the chime, substantially as described.

In testimony whereof, I have hereunto set my hand.

JAMES W. BRAINARD.

Witnesses:

R. D. LITTLE,
GEO. B. BLEMING.