

H. C. HERR.

BARREL.

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997,620.

Patented July 11, 1911.

Fig. 1.

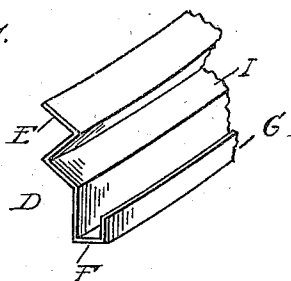


Fig. 2.

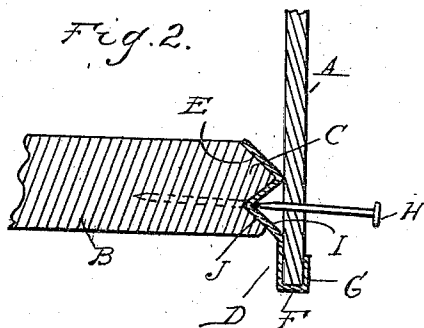
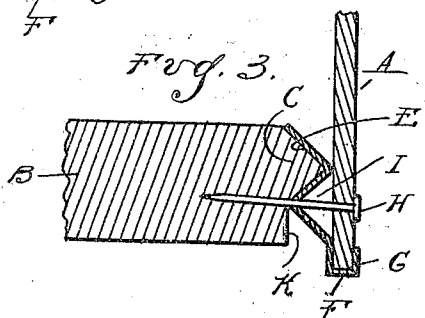


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

HENRY C. HERR, OF DETROIT, MICHIGAN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO
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BARREL.

997,620.

Specification of Letters Patent.

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To all whom it may concern.

Be it known that I, HENRY C. HERR, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Barrels, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to barrels or packages, and is more particularly designed for use in connection with that type in which the body is formed of paper or other fiber.

The invention consists in the construction of head and chime hoop for securing the same to the body of the package, as more fully hereinafter set forth.

In the drawings—Figure 1 is a perspective view of the hoop; Fig. 2 is a section of a portion of the head of the barrel showing the manner of securing the same; and Fig. 3 is a similar view showing a modified construction.

A is the cylindrical body of the barrel or package, and B is the head therefor, which is provided with croze C.

D is a metallic hoop which is adapted to fit within the body of the barrel and is provided with a grooved portion E for engaging the croze C. The hoop D is also preferably provided with an end flanged portion F with a return-bent portion G for fitting over the end of the cylindrical body.

The head is secured to the body by nails H, which are driven through the latter and the hoop D into the head. It is, of course, essential that the nails should enter the periphery of the head, but in practice difficulties are experienced in always properly directing the nail, particularly as the metal of the hoop will frequently deflect the point and change its original direction. I have, therefore, devised a construction in which the nails are invariably directed into the head so as to firmly engage the same even where not properly directed initially. This result is attained by forming the hoop D with a V-shaped groove I therein, the apex of which overlies the periphery of the head.

The inclined sides of this grooved portion of the hoop form deflecting surfaces which will direct the point of the nail toward the apex of the groove, and thus after penetrating the hoop the nail enters the peripheral portion of the head.

To cooperate with the hoop just described, the head B is formed so that the apex of the groove in the hoop will fall within the edge of the periphery. In the construction shown in Fig. 2, the head is formed with a V-groove J adjacent to the croze portion C and in the construction shown in Fig. 3 the croze is merely arranged sufficiently at one side of the center of the head to leave a projecting shoulder portion K. With both constructions, the nail which is first directed by the V-groove in the hoop to the apex will enter into the periphery of the head, and will be directed toward the central portion thereof.

What I claim as my invention is:

1. In a package, the combination with a body, of a head having a croze with a peripheral portion adjacent to said croze, a hoop fitting within said body, having a grooved portion for engaging the croze of said head, and a reverse groove with its apex directed inward and overlying the peripheral portion of the head adjacent to said croze, and securing means passing through said body and the apex of said reverse groove into the periphery of the head.

2. In a package, the combination with a body, of a head provided with a croze and having a peripheral portion adjacent to said croze, a hoop fitted within the body having a V-shaped groove with its apex directed inward and overlying the peripheral portion of the head, and securing means passing through the body and the apex of the V-shaped groove into the peripheral portion of the head.

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

HENRY C. HERR.

Witnesses:

NELLIE KINSELLA,
W. J. BELKNAP.