

Aug. 25, 1936.

W. C. PURDY

2,052,489

NAIL KEG COMBINATION HOOP AND HEAD RETAINER

Filed July 17, 1935

2 Sheets-Sheet 1

Fig. 1.

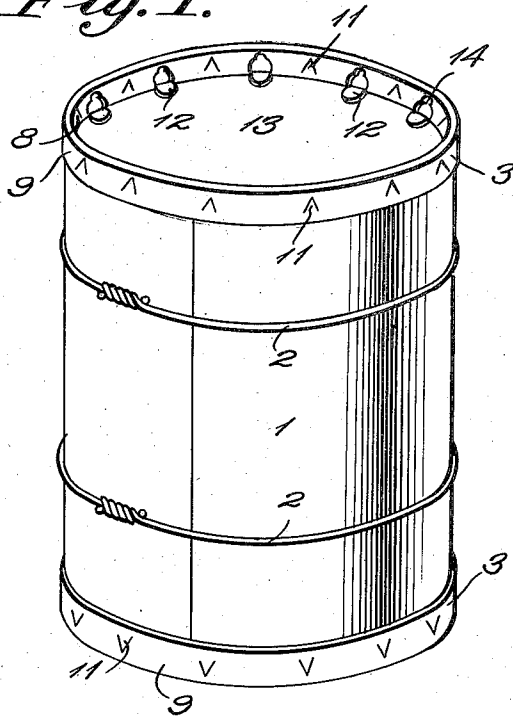


Fig. 2.

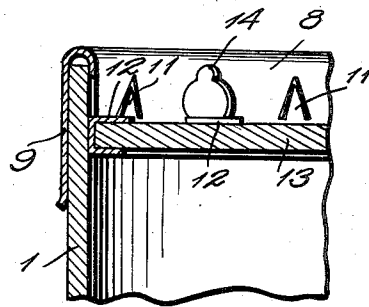


Fig. 3.

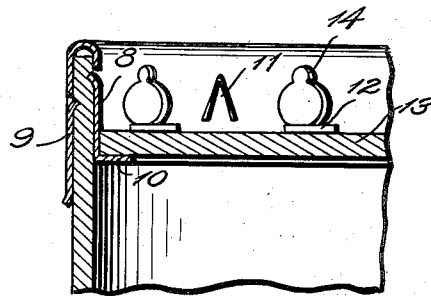


Fig. 5.

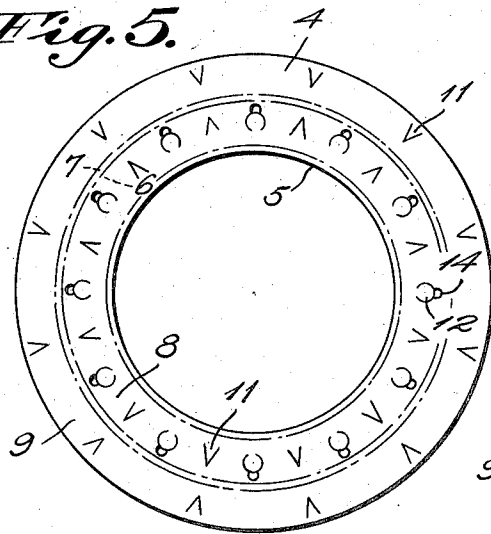
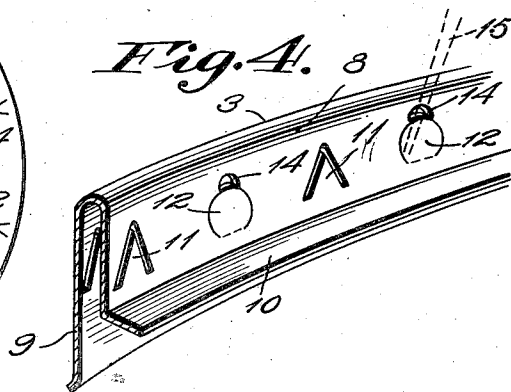


Fig. 4.



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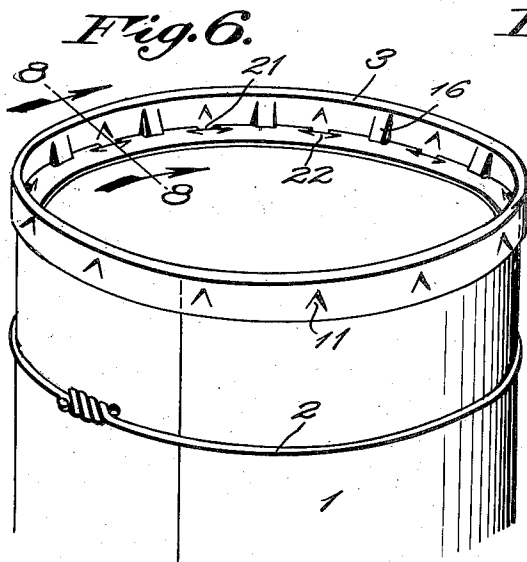
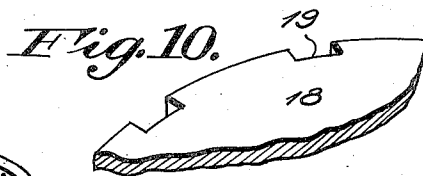
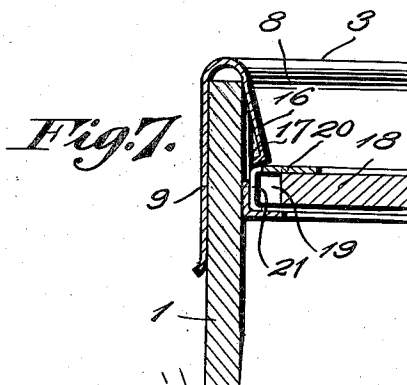
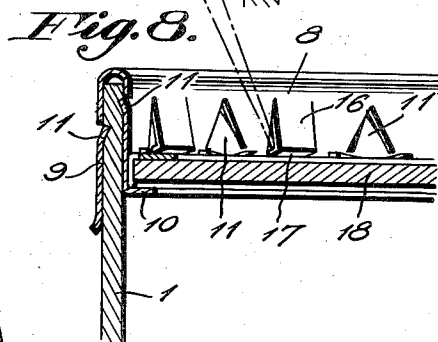
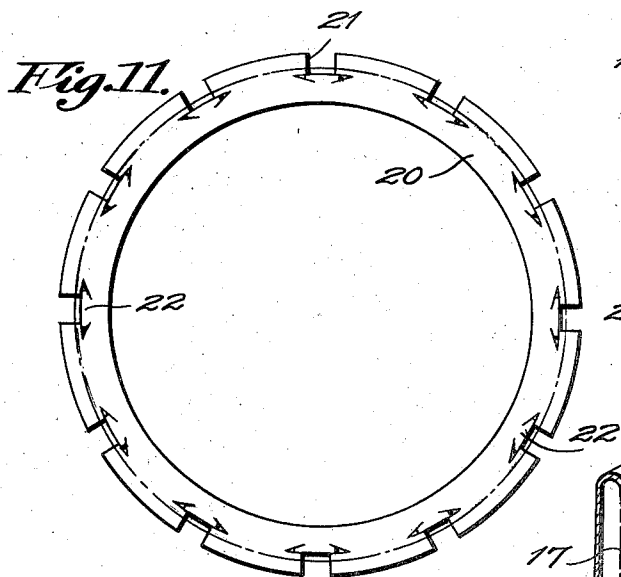
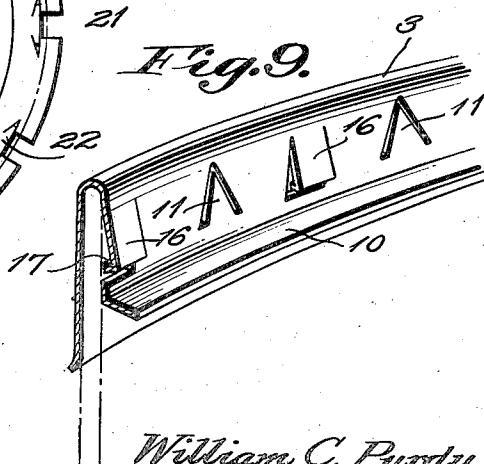
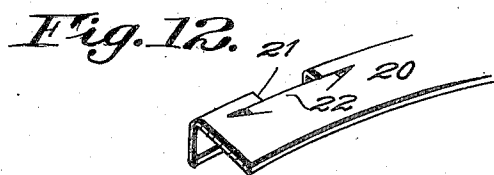
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NAIL KEG COMBINATION HOOP AND HEAD RETAINER

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2 Sheets-Sheet 2



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NAIL KEG COMBINATION HOOP AND
HEAD RETAINER

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Application July 17, 1935, Serial No. 31,899

4 Claims. (Cl. 217—89)

This invention relates to barrel or keg hoop and head retainers and has for the primary object, the provision of a device of the above stated character which will be durable and light in weight and may be made from a single piece of material increasing its strength and durability and materially reducing the cost of manufacture and its application to the body of the barrel or keg and the attaching of a head thereto by eliminating the use of nails or separable fasteners.

With these and other objects in view this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings, in which

Figure 1 is a perspective view illustrating a keg or barrel with the heads thereof secured to the body of the barrel or keg by my invention.

Figure 2 is a fragmentary vertical sectional view showing the combined hoop and head retainer securing a head to the body of a barrel or keg.

Figure 3 is a similar view showing the securing of the combined hoop and head retainer to the body of the barrel or keg.

Figure 4 is a fragmentary perspective view illustrating the combined hoop and head retainer with an instrument positioned for bending one of the retaining tongues in position to engage the head.

Figure 5 is a plan view illustrating the blank from which the combined hoop and head retainer is constructed.

Figure 6 is a fragmentary perspective view showing a modified form of my invention wherein the head may be readily placed into barrel closing position and be turned slightly in either direction to bring about locking thereof against accidental removal.

Figure 7 is a fragmentary sectional view showing securing of the head in barrel closing position.

Figure 8 is a detail sectional view taken on the line 8—8 of Figure 6.

Figure 9 is a fragmentary perspective view showing the resilient tongues on the combined hoop and head retainer.

Figure 10 is a fragmentary perspective view showing the head.

Figure 11 is a plan view illustrating a retainer member for the head.

Figure 12 is a fragmentary perspective view of the retainer element for the head.

Referring in detail to the drawings, the nu-

meral 1 indicates the body of a barrel or keg constructed of any material suitable for the purpose and preferably from a single length of material wherein the adjacent ends are brought in overlapping relation to form a seam and held in this position by bands or hoops 2. The body 1 is further held in proper shape by combined hoops and head retainers 3 forming the subject matter of the present invention and as the combined hoops and head retainers are identical in construction, reference to one specifically is thought sufficient.

The combined hoop and head retainer is formed from a single piece of material cut or stamped to form a blank 4. The blank 4 is in disc formation having a centrally arranged opening 5. The material of the blank is bent on the lines 6 and 7 to form inner and outer connected annular walls 8 and 9 and an annular flange or seat 10. The end of the body of the keg or barrel is received between the walls 8 and 9 with the seat 10 disposed within the body. The walls 8 and 9 have pressed or struck therefrom pointed tongues or tines 11 adapted to bite into the material of the body and thereby retain the combined hoop and head retainer firmly to the body of the keg.

The wall 8 has struck therefrom tongues 12 bendable from said wall to occupy a position resting against the outer face of the head 13 after the latter has been positioned on the seat 10. This mode of fastening the head eliminates the use of nails and similar fasteners. Semicircular openings 14 are formed in the wall 8 adjacent the edges of the tongues 12 to permit the insertion of a tool 15 so that the tongues may be readily bent into engagement with the outer face of the head.

From the foregoing description, taken in connection with the accompanying drawings, it will be noted that the combined hoop and head retainer can be easily applied to the body of a barrel and firmly retained thereon and to act as a reinforcement to the body. Also it is noted that the head can be easily and quickly inserted in position to close the body of the barrel and retained in this position by bending the tongues 12 into engagement with the outer face which will permit easy removal of the head when desired by simply bending the tongues in parallelism with the wall 8 or into the openings formed by the striking of the tongues from the wall 8.

Referring to my modified form of invention as shown in Figures 6 to 12, inclusive, the wall 8 of the combined hoop and head retainer has struck therefrom resilient tongues 16 which normally project outwardly of said wall and have their

free ends bent to extend in the direction of the wall 8 to provide head engaging portions 17. A head 18 is used in connection with the tongues 16 and is provided with spaced notches 19 adapted to permit the tongues 16 to pass freely there-through during the application of the head to the seat 10. Applied to the head 18 is an annular retaining element 20 preferably constructed of angle iron and is provided with slots 21 aligning with the notches 19. The slots 21 permit the free passing of the tongues 16. The head when brought to rest on the seat 10 is given a turn in either direction to move the notches 19 and slots 21 out of alignment with the tongues 16 so that the portions 17 of the tongues bear against the upper face of the retaining element 20 and thereby effectively secure the head against accidental removal from the barrel.

Double ended resilient tongues 22 are struck from the retaining element 20 adjacent to the slots 21 and are adapted to lie between the tongues 16 when the head is secured in position on the seat 10 which will prevent accidental turning of the head to bring the notches 19 in alignment with the tongues 16. To remove the head, the tongues 22 must be bent downwardly so that they will pass the tongues 16 during the turning of the head for bringing the notches 19 in alignment with the tongues 16.

Having described the invention, I claim:

1. A combined hoop and head retainer comprising an annular member of a single length of material bent to form connected parallel annular walls to receive in and grip an end of a barrel, an annular seat on one of said walls to be engaged by a head, and tongues on the last-named wall and bendable into engagement with the head, said last-named wall having openings adjacent to the edges of the tongues to permit an instrument to be positioned against the tongues for bending them into engagement with the head from a position parallel with the last-named wall.

2. A combined hoop and head retainer comprising an annular member of a single length of material bent upon itself to form parallel connected walls to receive and grip the end of a barrel, tines struck from said walls and biting into the material of the barrel, an annular rest formed integrally with one of the walls and extending at right angles thereto to form a seat for the head, and flexible tongues struck from the last-named wall and bendable into engagement with the head for removably retaining the latter on the seat.

3. In combination with a barrel having a head provided with notches, a combined hoop and head retainer mounted to the barrel, and including spaced connected walls and an angularly related portion to form a seat, means for securing the walls to the barrel, said seat limiting the inward movement of the head with respect to the barrel, resilient tongues formed on the combined hoop and head retainer and capable of passing through the notches during the application of the head to the seat, and means carried by the head for engaging with the tongues to prevent aligning of the notches with the tongues.

4. In combination with a barrel having a head provided with notches, a combined hoop and head retainer mounted to the barrel and including spaced connected walls and an angularly related portion to form a seat, means for securing the walls to the barrel, said seat limiting the inward movement of the head with respect to the barrel, resilient tongues formed on the combined hoop and head retainer and capable of passing through the notches during the application of the head to the seat, a retaining element carried by the head and having slots aligning with the notches, and double headed tongues carried by the retaining element to abut the first-named tongues to prevent turning of the head to align the notches of the first-named tongues.

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