April 21, 1942. R. S. McCONNELL 2,280,761

HOGSHEAD

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Fig. 1.

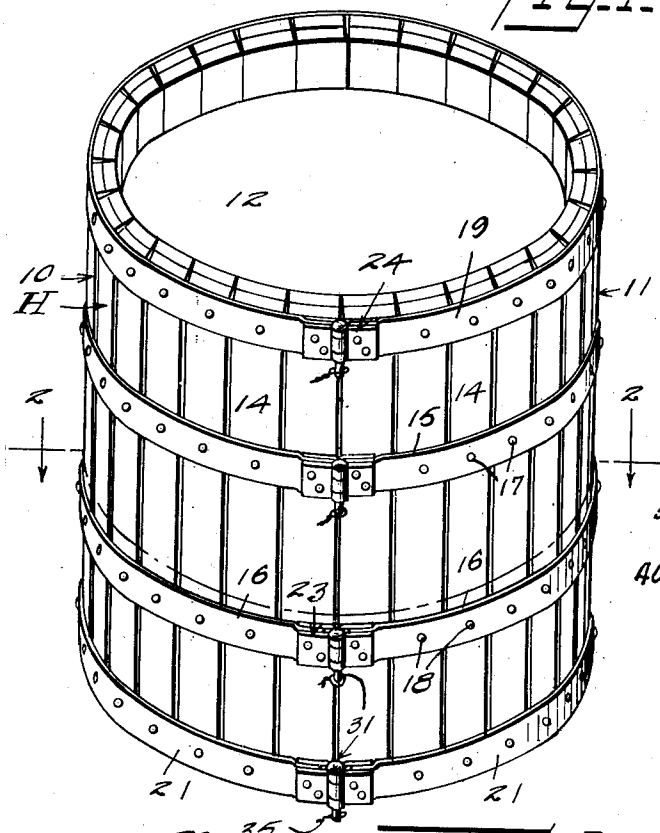


Fig. 8.

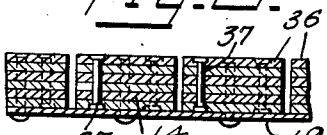


Fig. 9.

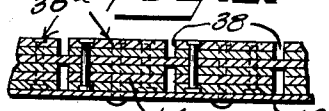


Fig. 10.

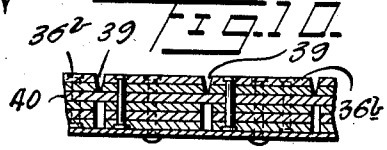


Fig. 2.

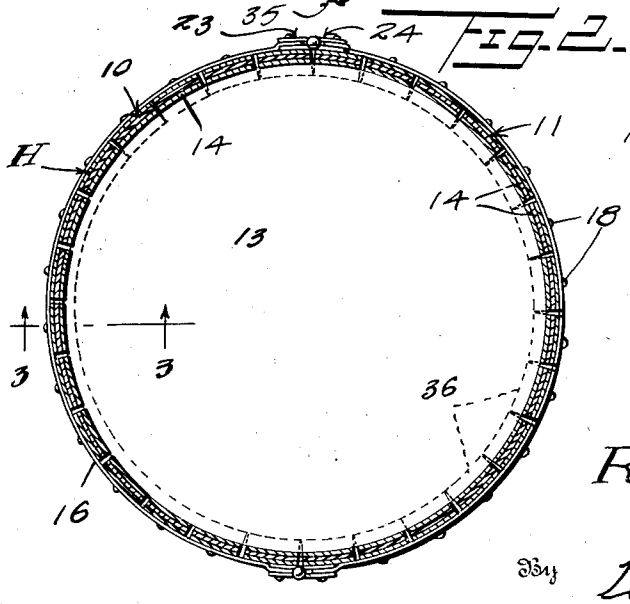
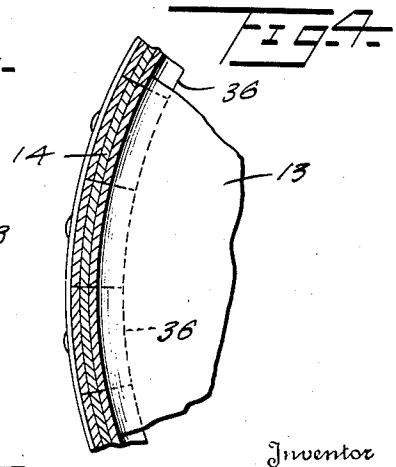


Fig. 4.



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Fig. 3.

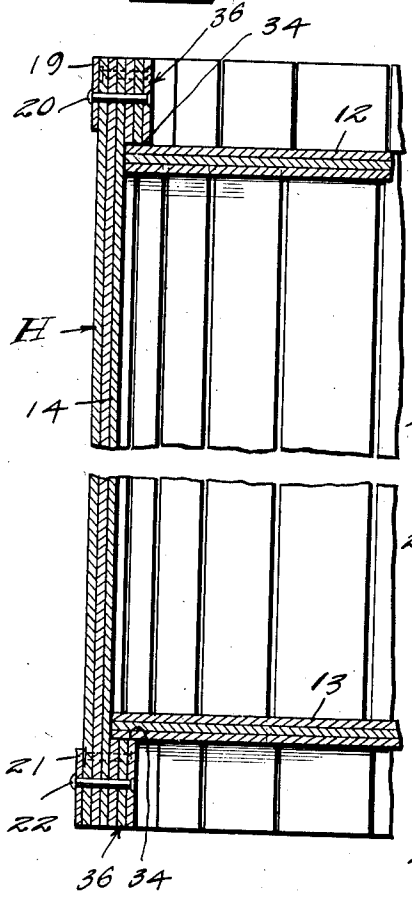


Fig. 5.

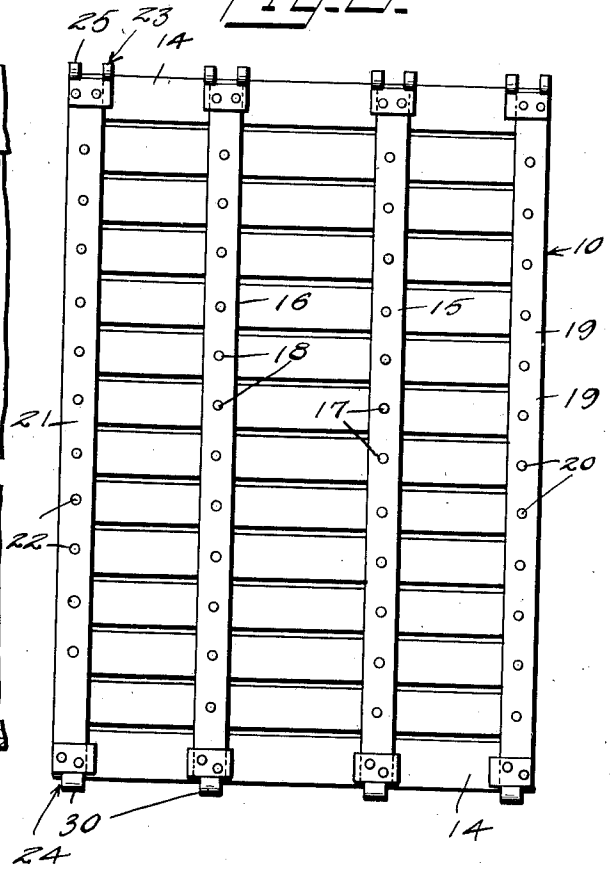


Fig. 6.

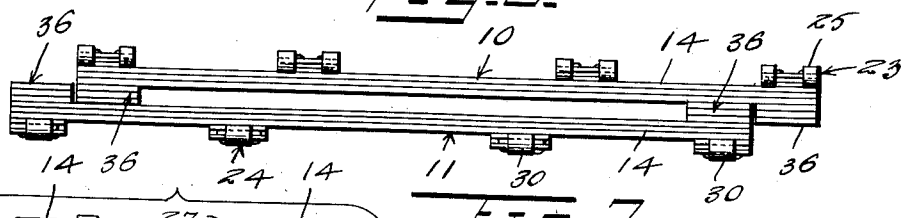
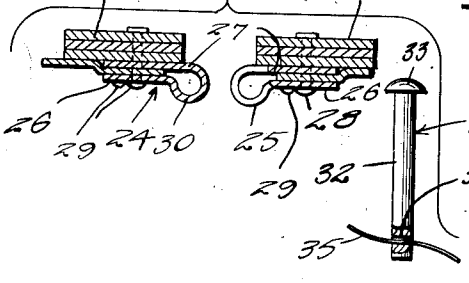


Fig. 7.



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HOGSHEAD

Ralph S. McConnell, Norfolk, Va.

Application December 1, 1938, Serial No. 243,473

1 Claim. (Cl. 217—44)

This invention relates to hogsheads and more particularly to a hogshead designed for use in shipment of tobacco.

An object of this invention is to provide a hogshead which is made out of a pair of separable side wall sections and removable heads, the side wall sections being so constructed that when the hogshead is not in use the sections may be separated and laid flat and stacked one upon the other, the sections having interengaging liners at each end so that when in stacked condition a relatively solid pile will be provided.

Another object of this invention is to provide a hogshead formed out of separable side wall sections, the staves forming the side wall sections being formed of straight material so that the staves when the sections are separated will lie flat on a plane surface.

A further object of this invention is to provide a hogshead of this kind wherein the material of which the hogshead is constructed may be formed out of ply wood, the several plies being glued together by a glue having a composition which is water-resistant and is non-injurious to the tobacco.

A still further object of this invention is to provide a hogshead of this kind wherein the liners at each end of the side walls may be formed out of ply wood, the liners being formed from separate blocks which are secured one pair to each stave or being formed from a single strip of material which is provided with notches or kerfs through a portion of the material forming the liner.

Still another object of this invention is to provide a hogshead of this type which may have the staves thereof spaced apart if desired, so as to provide an air space between the longitudinal edges of the staves or if desired the staves may be spaced close together so as to provide a substantially air-tight structure.

To the foregoing objects and others which may hereinafter appear, the invention consists of the novel construction, combination and arrangement of parts as will be more specifically referred to and illustrated in the accompanying drawings, but it is to be understood that changes, variations and modifications may be resorted to which fall within the scope of the invention as claimed.

In the drawings:

Figure 1 is a perspective view of a hogshead constructed according to an embodiment of this invention,

Figure 2 is a sectional view taken on the line 2—2 of Figure 1,

Figure 3 is a fragmentary sectional view taken on the line 3—3 of Figure 2,

Figure 4 is a fragmentary horizontal section of a modified form of this hogshead structure,

Figure 5 is a plan view of one of the side wall members,

Figure 6 is a detail end elevation of a pair of side wall members in nested and knocked down form,

Figure 7 is a fragmentary sectional view through the hinge connections between the two side wall sections,

Figure 8 is a fragmentary horizontal section through the liner portion of one of the side wall members,

Figure 9 is a view similar to Figure 8 but showing a modified form of liner, and

Figure 10 is a view similar to Figure 9 but showing a further modifier liner structure.

Referring to the drawings, the character "H" designates generally a hogshead which is formed from a pair of side wall sections 10 and 11. An upper removable head 12 is disposed interiorly of the side wall sections 10 and 11 when the side wall sections are in assembled condition and a bottom head 13 is also disposed within the side wall sections when assembled.

The side wall sections 10 and 11 are substantially identical in construction and the following description of one of the side wall sections will apply equally as well to the other side wall section. The side wall section 10 comprises a set or series of elongated spaced parallel stave members 14 which are formed preferably out of ply wood and each stave 14 is formed from a straight strip of material so that when the two side wall sections 10 and 11 are assembled a cylindrical body will be provided. Through the provision of a cylindrical side wall structure, the space usually taken up by the bulge in the conventional hogshead will be eliminated so that these hogsheads may be placed close together when filled with material in addition to being stacked one upon the other. The staves 14 are of equal width and length in order that in the event one or more of the staves of a side wall section becomes damaged or broken such damaged or broken stave may be removed and a new stave inserted in its place. The staves 14 of the side wall member 10 are secured together by means of a pair of intermediate metal bands 15 and 16 which are disposed in parallel relation between the ends of the staves 14 and the bands 15 and 16 are secured directly against the outer sides of those staves 14 of the set, other than the end staves 14 of the set

by means of fastening devices 17 and 18 respectively. These fastening devices may be in the form of rivets, clinched nails or any other suitable fastening device and as many fastening devices 17 nad 18 may be used for each stave as is desired.

An upper metallic band 19 is secured directly to the upper end of the outer sides of those staves 14 of the set, other than the end staves 14 of the set by means of the fastening devices 20 and a lower metallic band 21 is secured directly to the lower end of the outer side of those staves 14 of the set, other than the end staves 14 of the set by the fastening devices 22.

The bands 15, 16, 19 and 21 are of like form. Each band includes an intermediate portion 15a and a pair of end portions 16a which are offset with respect to the ends of the intermediate portion 15a. Each terminal portion 16a consists of an inner outwardly directed inclined part 19a and a horizontal part 21a of greater length than the part 19a. The latter is interposed between the part 21a and an end of the intermediate portion 15a and not only functions as an abutment for a purpose to be referred to, but further maintains the part 21a spaced from the outer side of an end stave 14 of the set. The end portions 16a of a band constitutes positioners for yoke-shaped connector members. The connector members employed in connection with the bands of each side wall section are designated 23, 24.

The members 23 are of like form and each has its bight in the form of a pair of spaced aligned barrels 25. The members 24 are of like form and each has its bight in the form of a single barrel 30 for disposing between the barrels 25 of a member 23. Each of the connector members 23 and 24 includes outer and inner spaced parallel arms 26, 27 respectively merging at their outer ends into a bight. The arm 27 is of greater length than the arm 26.

The horizontal parts 21a of the band provide for disposing the connector members at the desired position relative to the side wall sections 10, 11. The connector members are disposed in overlapping relation with respect to the parts 21a of the end terminals 16a of the bands. When the members are disposed in overlapping relation, as stated, the arms 27 thereof abut the parts 19a and are arranged against the outer sides of the end staves 14 of the sets of staves, the bights of the connector members extend laterally from the end edges of the bands, the arms 26 of said members abut the outer faces of the parts 21a of the terminal portions 15a. When the said members are arranged in the manner aforesaid they and the outer staves of the sets of staves and the end terminal portion 15a of the bands are secured together by bolts 28 and fastener members 29 in the form of rivets or clinched nails.

When the connector members have been secured to the side wall sections 10, 11 in a manner as aforesaid, the bights of the members 24 are extended into the bights of the members 23, whereby the barrel 30 of a member 24 is arranged between and aligns with the barrels 25 of a member 23.

The side wall forming sections 10 and 11 are to be detachably secured together to form the body of the hogshead and for this purpose there are correlated with the connector members 23, 24 pintle members 31. A pintle member 31 is common to a member 23 and a member 24 when the bights of such members are interengaged. In the present instance, these pintle members 31 are formed of a shaft 32 and a head 33 at one end thereof. An opening 34 is provided adjacent the opposite end of the shaft 32 and a wire 35 is adapted to be threaded through the opening 34 and the ends of the wire 35 are then brought together and twisted so as to thoroughly seal the pintle 31 in the connector barrels 25 and 30. In the present instance, there is provided a single pintle for each pair of bands but if desired, an elongated pintle may be provided which may extend entirely through all of the aligned barrels 25 and 30.

The barrel section 10 at each end thereof is provided with a liner or inwardly projecting member 36 forming a shoulder 37 at its inner edge against which a head member is adapted to engage. The liner 36 as shown in Figure 8 is formed from a relatively small block of ply wood and as shown in Figure 8 there may be a single block or liner member 36 adjacent each end of a stave 14. The liner members 36 are secured to the stave 14 by means of fastening devices 37 in the form of rivets, clinched nails or the like.

In Figure 9 there is disclosed a modified form of liner 36a wherein a single strip of ply wood extends to full length of each end of the side wall member 10 and this liner 36a is provided with a plurality of notches or kerfs 38 which extend through at least two plies of wood forming the liner, leaving the remaining ply unnotched and this remaining ply is adapted to confront the inner side of the stave members 14. The notch 38 has parallel sides and may be cut through by a conventional saw, the width of the notch 38 being sufficient to permit the bending of the side wall member 10 in a semi-circular configuration when the side wall member is being assembled.

In Figure 10 there is disclosed a further modification of the liner wherein a liner 36b is provided and in this form the liner 36b is also formed from a single narrow strip of ply wood and a V-shaped kerf or notch 39 is provided which extends through at least two plies of the liner leaving the remaining ply 40 uncut and this remaining ply is adapted to face the inner sides of the staves 14.

Through the provision of a side wall structure formed substantially entirely out of ply wood, the staves forming the main part of the side wall sections will retain their straight configuration when the hogshead is packed with tobacco so that after the packed tobacco has been removed the side wall members may be released and stacked in nested form one upon the other. Furthermore, the provision of the head members 12 and 13 formed from ply wood provides a structure wherein the heads will not readily crack or break and this structure also eliminates the necessity for providing braces across the head.

In the use of this hogshead, the side wall members 10 and 11 may be assembled by first inserting the pintles 31 through one series of connector barrels 25 and 30 with the side wall members 10 and 11 lying substantially flat in edge abutting relation. After one edge of the side wall members 10 and 11 has been secured by the detachable fastening members 31, the combined side wall including the two sections 10 and 11 may be bent in a circle and the free ends secured together by the detachable fastening members 31. At this time the head members 12 and 13 are not in position but the bottom head member 13 may be inserted through either the top or the bottom of the cylindrical body formed by the

connected side wall members 10 and 11 by distorting the configuration of the body and then inserting the bottom member 13. This member 13 is then moved downwardly until it rests upon the shoulder 34 provided by the lower liner members 36. The body may then be filled with tobacco which may be packed in any suitable manner and after the tobacco has been properly packed, the upper head 12 may be inserted by removing the uppermost pintle 31 connecting one end of the side wall sections 10 and 11 together so that these sections may be spread apart a distance to distort the configuration of the upper portion of the hogshead to admit of the insertion of the upper head 12. When the upper head 12 has been inserted beneath the liner 36 and engages the shoulder 34 thereof, the released pintle 31 from the upper connector barrels 25 and 30 may be reinserted.

What I claim is:

A knockdown hogshead comprising a pair of oppositely disposed side wall sections of like form each consisting of a set of spaced endwise aligned parallel straight staves of corresponding length and width, spaced metallic superposed bendable bands of like form having intermediate portions positioned against the outer sides of those staves other than the end staves of the set, each band having angle-shaped terminal portions offset with respect to its intermediate portion and spaced from the outer sides of the end staves of the set, means for securing said intermediate portions to the staves against which they are positioned, a connector member endwise abutting, overlapping and extended laterally from each end terminal of a band and bearing against the outer side of an end stave and the outer side of a terminal portion, means for securing each member to a terminal portion and an end stave, means for detachably connecting the connector members of one side wall section to the connector members of the other side wall section, superposed spaced liners positioned against the end terminal portions of the inner face of each stave of each set, means engaging in a stave and in the liners arranged against the inner face of such stave for securing them together, head members removably engaging the inner edges of said liners when the side wall sections are detachably secured together, the liners on one stave of a set being spaced from the liners on adjacent staves of the set, and the holdfast means for securing the intermediate portion of certain of said bands to the staves of said sections permanently engaging in said liners.

RALPH S. McCONNELL.