C. T. HANNA.
MEANS FOR PREVENTING THE CHARRING OF CERTAIN PORTIONS OF WHISKY BARRELS.
APPLICATION FILED JAN. 14, 1910.

1,033,692. Patented July 23, 1912.
Means for Preventing the Charring of Certain Portions of Whisky-Barrels.

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To all whom it may concern:

Be it known that I, CYRUS T. HANNA, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain improvements in Means for Preventing the Charring of Certain Portions of Whisky-Barrels, of which the following is a specification.

My invention relates to the charring of whisky barrels, and the object of my invention is to prevent the charring of certain portions thereof. It sometimes occurs that the charring is of such depth as to weaken the staves should the latter be cut or apertured for any purpose, and in consequence, when the necessary bung hole is bored in a stave the shell of the latter may be found insufficient to support a bung.

The object of my invention, therefore, is to provide means for preventing the charring of a stave, at a point where a bung hole may be subsequently bored therein.

My invention is fully shown in the accompanying drawing, in which:

Figure 1, is a sectional view illustrating a barrel in process of being charred, with my improved preventive device in position; Figs. 2 and 3, are views illustrating modified forms of char preventing devices embodying my invention, and Figs. 4 to 11, inclusive, are views illustrating various other modified constructions embodying my invention.

In the drawings, 1 represents a barrel to be charred, which, during the charring process is usually without its heads. The barrel is shown in the process of being charred, a fire being indicated at 2. Suspended within the barrel and in engagement with one of the staves is a protector block 3, which may be of metal or other material suitable for the purpose for which it is designed, having a stem 4, whereby it may be suspended, and in the present instance such stem is held in an aperture of a bar 5 laid across the top of the barrel by means of a set screw 6 in engagement with the stem.

In the structure shown in Fig. 2, the stem is bent so as to hang over the top of the barrel staves. The structure 3 lying in engagement with the stave in this instance, may be hollow, to provide for the presence of air which may form additional insulation against the charring action.

In the form of the device shown in Fig. 3, the block 3 is carried by a rod or stem 4 of the shape shown, bent so as to pass over the staves of the barrel; the outer portion lying a short distance away from the surface of the barrel when set in place. To bring the block 3 against the inner surface of the stave a wedge, as indicated at 7, may be employed. The block 3 may be a solid or a hollow member as may be most desirable.

The member 3 may be square, round, hexagonal, or any other suitable shape, as illustrated in the several views, Figs. 4 to 9, inclusive, and in some instances I may employ a perforated member indicated at 30 in Figs. 10 and 11. The latter structure may be particularly available for use over a bung hole of a barrel that is being re-charred.

The rod 4 may be threaded into the block 3 in the manner indicated, or riveted thereeto as shown in Fig. 3, or otherwise suitably secured; in any instance with or without the enlargement or shoulder 8.

I claim:

1. The combination with a barrel or similar structure and means for applying flame and heat to the inner surface of the same for the purpose of charring such inner surface, of a metallic protector disposed in contact with the inner surface of the barrel at a point remote from the source of heat and flame, and means for holding said protector in surface contact with the inner wall of the barrel during the charring action whereby a portion of the surface is kept uncharred.

2. The combination with a barrel or similar structure and means for applying flame and heat to the inner surface of the same for the purpose of charring such inner surface, of a protector for engagement with one of the barrel staves at a point remote from the source of heat and flame, a stem carried by said protector, a support carried by the barrel, and means for adjustable connecting said stem and support whereby the protector may be properly positioned during the charring action to keep a portion of said stave uncharred.

3. The combination with a barrel or similar structure and means for applying flame and heat to the inner surface of the same for the purpose of charring such inner sur-
face, of a metallic protector disposed in contact with the inner surface of the barrel at a point remote from the source of heat and flame, a stem carried by said protector and extending outside the barrel, and means engaging said stem with respect to the barrel whereby the protector may be held against the inner surface of the same to keep a portion of such surface uncharred.

4. The combination with a barrel or similar structure and means for applying flame and heat to the inner surface of the same for the purpose of charring such inner surface, of a hollow perforated metallic protector disposed in contact with the inner surface of the barrel at a point remote from the source of heat and flame, a stem carried by said protector and extending outside the barrel, and means adjustably supporting said stem with respect to the barrel whereby the protector may be held against the inner surface of the same to keep a portion of such surface uncharred.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

Witnesses:

MURRAY C. BOYER,
WM. A. BARR.

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