

UNITED STATES PATENT OFFICE.

GEORGE WASHINGTON PARRISH, OF SALEM, VIRGINIA.

BARREL-HOOP.

SPECIFICATION forming part of Letters Patent No. 409,228, dated August 20, 1889.

Application filed June 1, 1889. Serial No. 312,858. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WASHINGTON PARRISH, a citizen of the United States, residing at Salem, in the county of Roanoke and State of Virginia, have invented a new and useful Barrel-Hoop, of which the following is a specification.

The invention relates to improvements in barrel-hoops.

The object of the present invention is to produce a contractile hoop of simple and inexpensive construction, which will when contracted force itself farther on a barrel and avoid the liability of slipping off.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a portion of a barrel provided with a hoop constructed in accordance with this invention. Fig. 2 is a horizontal sectional view, and Fig. 3 is a detail view of the central plate.

Referring to the accompanying drawings, A designates a barrel provided at its upper end with a hoop B, whose ends *b* and *b'* approach within a short distance of each other, but leaving sufficient space for contraction and for a central plate C, which is secured to the barrel A. The hoop B is provided at its ends *b* and *b'* with plates D, which are riveted or similarly secured thereto, and are provided with arms *d*, extending out laterally from the barrel A. The arms *d* may be formed at the ends of the plates D or intermediate of the ends, and they are provided with threaded openings *d'*, which receive screws E, and the arms *d* and the screws E are threaded, respectively, one right-handedly and the other left-handedly. The screws E have open eyes *e* and are connected to a short bar or cylindrical piece F, which is provided at its ends with rings *f*, that receive the eyes *e* of the screws and form between the ends *b* and *b'* of the hoop B a flexible connection that conforms to the curvature of the barrel and clamps the latter more tightly than would be the case were the connection rigid and unyielding. The bar F is provided intermediate of its ends with an

annular groove *f'*, that is engaged by a curved recess *c'* in the outer edge of a flange extending out from the central plate C, in order to keep the bar F away from the barrel A to facilitate turning. On each side of the annular groove is a series of perforations extending through the bar and designed to be engaged by a rod or similar tool to contract the hoop. After the hoop has been sufficiently contracted, the bar F is held in that position by passing a locking-screw G through one of the perforations and forcing it into the side of the barrel.

In order to prevent the hoop B slipping off the barrel when being contracted, it is provided with a series of inclined slots *b''*, through which pass screws or the like *a*, which enter the side of the barrel, whereby, when the hoop is contracted, it will be drawn in toward the center of the barrel.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will readily be understood.

What I claim is—

1. A contractile hoop provided with a series of inclined slots designed to be engaged by screws or the like projecting from the side of a barrel, whereby, when it is contracted, it will be drawn farther on a barrel, substantially as described.

2. The combination of the hoop having its end provided with plates having threaded openings, the screws provided with eyes and engaging the threaded openings, and the bar having rings at its ends to receive the eyes of said screws, whereby a flexible connection is formed, substantially as described.

3. The combination of the hoop provided with end plates having threaded openings, the screws provided with eyes and engaging the threaded openings, the bar having rings at its ends engaging the eyes of said screws, and an annular groove intermediate of said ends, and the central plate designed to be carried by a barrel, provided with the curved recess for engaging the annular groove, substantially as and for the purpose described.

4. The combination of the hoop provided with end plates, the screws having eyes and

engaging threaded openings in said plates,
the bar provided with rings to receive said
eyes and having a series of transverse perfor-
rations, and a locking-screw passing through
5 one of the perforations and adapted to en-
gage a barrel, substantially as described.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in
presence of two witnesses.

GEORGE WASHINGTON PARRISH.

Witnesses:

W. W. BALLARD,
SAML. M. WHITE.