(No Model.)

J. F. RICH.

FLAT WOODEN HOOP.

No. 410,447. Patented Sept. 3, 1889.

Fig. 1.

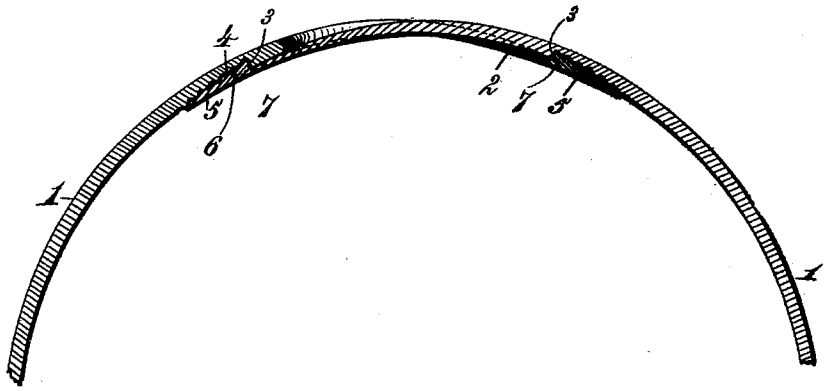


Fig. 2.

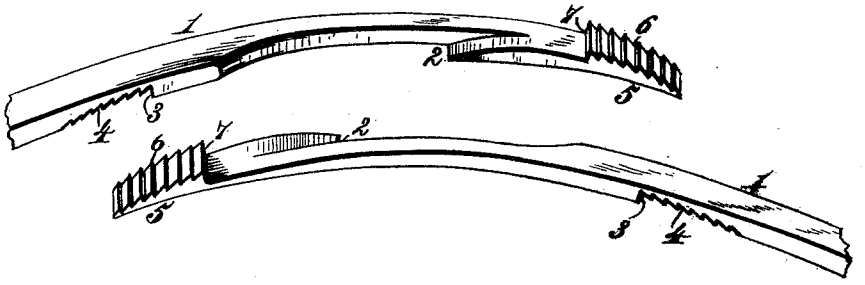
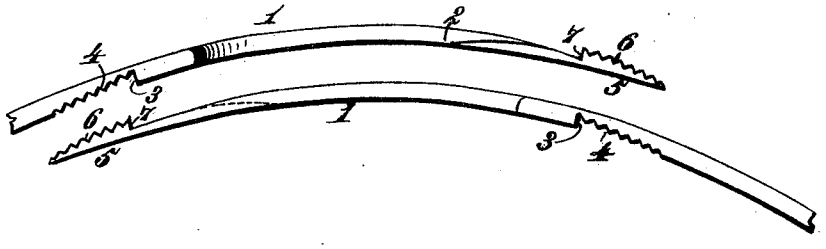


Fig. 3.



Witnesses.
Robt. Ewett.
J. A. Rutherford.

Inventor.
John F. Rich.
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Atty.

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UNITED STATES PATENT OFFICE.

JOHN F. RICH, OF SUMMERTOWN, ASSIGNOR OF TWO-THIRDS TO LUTHER L. FRIERSON, OF MOUNT PLEASANT, TENNESSEE.

FLAT WOODEN HOOP.

SPECIFICATION forming part of Letters Patent No. 410,447, dated September 3, 1889.

Application filed July 8, 1889. Serial No. 316,824. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. RICH, a citizen of the United States, residing at Summertown, in the county of Lawrence and State of Tennessee, have invented new and useful Improvements in Flat Wooden Hoops, of which the following is a specification.

My invention relates to certain improvements in the construction of wooden hoops for barrels or other similar uses, the purpose being to provide an extremely simple form or construction of the interlocking extremities, whereby they may be engaged in such manner as to offer a most powerful resistance to the bursting strain, which forces the parts into closer engagement as said strain increases.

The invention consists in the novel features of construction and new combinations of parts hereinafter fully described, and then pointed out in the claims following this specification, the same constituting certain improvements upon the invention contained in an application for Letters Patent of the United States filed by me upon the 11th day of February, 1889, Serial No. 299,431.

Referring to the accompanying drawings, Figure 1 is a sectional view showing a portion of a wooden hoop locked together at its ends. Fig. 2 is a detail perspective of the parts shown in Fig. 1 disengaged. Fig. 3 is a detail elevation showing the extremities of the hoop in position for engagement.

In the said drawings, the reference-numeral 1 denotes the wooden body of the hoop, constructed in any usual manner and provided with extremities which overlap one upon the other. In each of these overlapping ends is formed a lap-notch 2, of any suitable kind, whereby the lapped ends may be brought one upon the other and the extremities thereof carried under the body portion without increasing the width of the hoop. In the under face of each lapping portion, at some distance from the end thereof, is formed a notch or recess having a square or angular shoulder 3 facing the body part of the hoop. To form the recess, the wood is cut away to give a constantly-decreasing depth to said recess, and notches or corrugations 4 are formed in the wood, having any desired form—as, for example, being angular or wedge-shaped, half-round with rectangular angles, or in any other desired pattern. Each tip or extremity 5 of the hoop is beveled off at an angle substantially corresponding to that of the recess terminating in the shoulder 3, and upon the upper face thereof are formed notches, shoulders, or corrugations 6, which are the counterpart of those in the engaging-recess. A reverse shoulder 7 is formed upon the underlying extremity at a suitable distance from the end to engage with the shoulder 3, and the construction set forth may be duplicated upon the other end of the hoop, if desired, although it is evident that the interlocking shoulders at one end alone will answer all ordinary purposes.

The notches or shoulders 3 may be so arranged with relation to the lapping notches 2 that all strain is removed from the latter, as shown in the prior application of John F. Rich, hereinbefore referred to, but this feature forms no essential part of my present invention.

What I claim is—

1. A wooden hoop having its end portions provided with lapping notches cut in the edges and provided upon one or both lapped portions with an angular shoulder, the recess adjacent to the same being provided with notches or corrugations, while the engaging extremity of the hoop has an opposite shoulder and a tapered or beveled end provided with notches or corrugations engaging those in the said recess, substantially as described.

2. A wooden hoop having a lap-notch 2 in each extremity and provided with a shoulder 3 in each lapping portion, formed by a recess having notches or corrugations 4, the ends of the hoop being provided with opposite shoulders 7 and tapered or beveled extremities having notches or corrugations 6, substantially as described.

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

JOHN F. RICH.

Witnesses:

R. D. RICKETTS,

C. C. BARRETT.