

(No Model.)

J. LEACH.

HOOP.

No. 382,264.

Patented May 1, 1888.

Fig. 1.

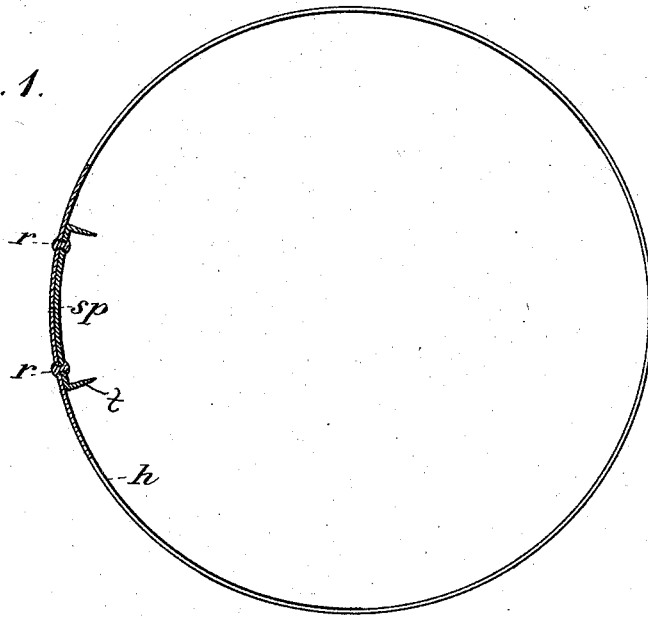


Fig. 2.

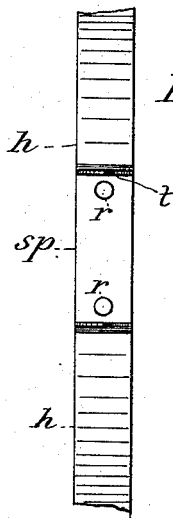


Fig. 3.

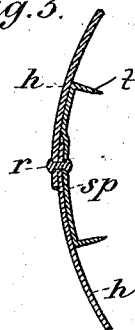


Fig. 4.

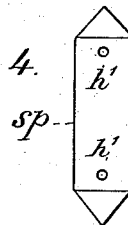
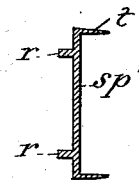


Fig. 5.



WITNESSES.

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JOSEPH LEACH, OF HAUGHVILLE, ASSIGNOR OF ONE-HALF TO CALVIN G. UDELL, OF NORTH INDIANAPOLIS, INDIANA.

HOOP.

SPECIFICATION forming part of Letters Patent No. 382,264, dated May 1, 1888.

Application filed February 18, 1888. Serial No. 264,497. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH LEACH, of Haughville, county of Marion, and State of Indiana, have invented certain new and useful Improvements in Hoops for Coopers' Ware; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

10 My invention relates to improvements in the construction of hoops for coopers' ware, and is an improvement upon the device for which Letters Patent No. 376,530 were issued to me on the 17th day of January, 1888.

15 In the drawings, Figure 1 represents an edge-wise view of a hoop united by my device, the fastenings being shown in section. Fig. 2 is a front side view of the same. Fig. 3 is a longitudinal section of a part of a hoop, showing 20 my device in place held by the rivet which unites the laps of the band. Fig. 4 is a top view of the blank out of which my fastener is formed. Fig. 5 is a longitudinal sectional view of a modification of the device shown in the other figures, the only difference being that the rivet 25 is formed integral with the spur-plate itself. In the latter form the device is made of malleable iron, and the rivet-pins formed upon the spur-plates are headed down over the holes in the hoop.

30 In detail, *h* is the hoop composed of a band of iron or other material. In Fig. 1 the hoop is shown with the ends abutting against each other. *sp* is a spur-plate, which is formed of a thin strip of metal with a spur upturned at 35 each end thereof. This is placed inside the hoop. Iron rivets are then driven through the spur-plate at each end of the hoop, and the rivets are then headed down.

40 If desired, a central rivet may be used instead of one at each end, and in that case it is well to let the ends of the hoop lap and the rivet be driven through the laps and the spur-plate, as shown in Fig. 3.

45 The spur-plate shown in Fig. 4 is simply a strip of metal with holes *h'* to receive the rivet.

In Fig. 5 the spur-plate is formed with spurs projecting upon one side and rivet-pins from

the under side, and when these are inserted in the holes of the hoop they are simply headed 50 down with a hammer, and the device in this case may be made of malleable iron. The other form of this device may be made of ordinary sheet metal. The hoop being placed upon the tub is drawn up by hand as far as it 55 will go and then driven up, and the ends of the spurs having a knife-edge will cut their way into the staves, leaving no mark or trace whatever, as the wood closes up behind them. The manner of putting the hoop upon the tub 60 is described in my former Letters Patent; and my present invention consists in the spur-plate entirely separate from the hoop, either with or without the rivet-pins formed integral therewith uniting the ends of the hoop. 65

Sometimes it may only be necessary to use one central rivet-pin, instead of one on each end; but this would involve the same principle as the other, and I do not intend to limit myself to the use of one or two rivet-pins, but may use 70 as few or as many as are desired.

In making the spur-plate out of the blank shown in Fig. 4 the pointed ends *t* are turned 75 up on the cross-lines at right angles to the body or central portion of the plate.

What I claim as my invention, and desire to secure by Letters Patent, is the following, to wit:

1. A hoop formed of a band of iron, its ends united by means of a plate having one or more 80 spurs on its inner face, such spur-plate secured to the ends of the hoop by means of rivets, substantially as shown and described.

2. A hoop formed of a band of iron or similar material whose ends are united to a plate 85 carrying spurs on its inner face, such plate laps the joint formed by the ends of the hoop-band, with means for uniting the plate to the hoop, substantially as shown and described.

In witness whereof I have hereunto set my 90 hand this 13th day of February, 1888.

JOSEPH LEACH.

Witnesses:

C. P. JACOBS,

E. B. GRIFFITH.