

(No Model.)

E. W. BEAZELL.
FASTENING FOR BARREL OR OTHER HOOPS.

No. 500,844.

Patented July 4, 1893.

Fig. 1.

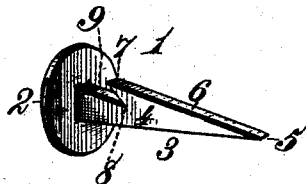
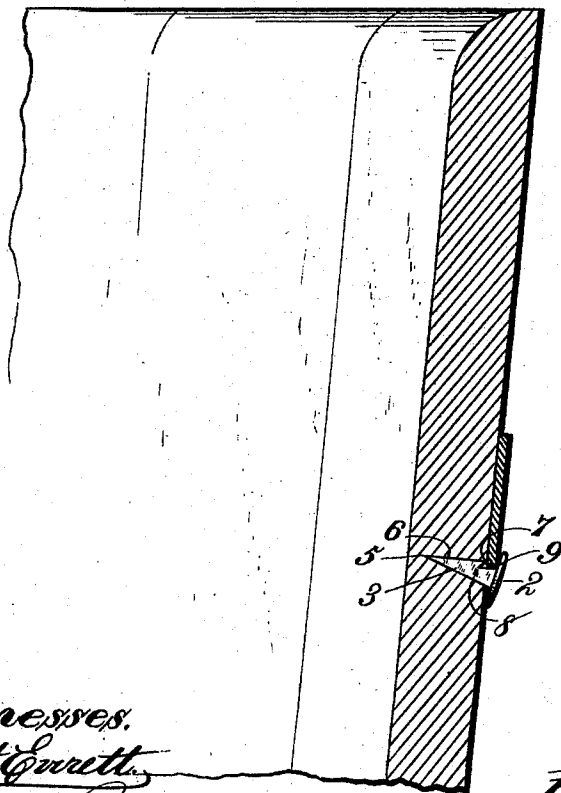


Fig. 2.



Witnesses.

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ELLA W. BEAZELL, OF BEAVER, PENNSYLVANIA.

FASTENING FOR BARREL OR OTHER HOOPS.

SPECIFICATION forming part of Letters Patent No. 500,844, dated July 4, 1893.

Application filed August 18, 1892. Serial No. 443,437. (No model.)

To all whom it may concern:

Be it known that I, ELLA W. BEAZELL, a citizen of the United States, residing at Beaver, in the county of Beaver and State of Pennsylvania, have invented new and useful Improvements in Fastenings for Barrel and other Hoops, of which the following is a specification.

My invention relates to an improved device for retaining the hoops of tubs, barrels, casks, buckets and other similar articles in position. In those cases where hoops have been applied to tubs, barrels, casks, buckets and other like articles and the close contact of the hoops alone relied upon to retain themselves in position, shrinkage of the barrel or like article which almost invariably occurs, permits the hoops to fall from their position, and the staves of which the article is constructed to separate, thus destroying the article. To obviate this difficulty it has heretofore been the custom to confine such hoops in position by nails, or tacks, which pass through the hoops and enter the staves. This is objectionable in that, among other things, unless the greatest care is taken in the disposition of the nails, the hoop will not have an equally close contact with the surface of the article throughout its extent, and further in that when shrinkage of the article to which the hoop is applied occurs, said hoop cannot, or cannot without much trouble, be released, and driven more tightly upon the article.

It is the object of my invention to provide a novel device which will effectually serve to sustain the hoops of tubs, barrels, casks, buckets and other like articles in position and prevent the same from falling in case of the shrinkage of the article, and at the same time in no wise operate to prevent the said hoops having an equally close, confining contact with the article to which it is applied, throughout the extent of said hoops, and permit the hoop or hoops to be released and driven more tightly upon the article when shrinkage of the article occurs.

To this end my said invention consists in the novel construction of devices hereinafter described and claimed, reference being made to the accompanying drawings, wherein—

Figure 1 is an enlarged view of my im-

proved device and Fig. 2 a sectional view of an article to which said device is applied.

In the said drawings the reference numeral 1 represents my improved hoop-fastening or sustaining device, which is formed from sheet metal with a flattened head 2, of any suitable construction but which I preferably construct flat as shown in the drawings.

The numeral 3, represents the thin shank-portion of the device which is constructed with flat parallel sides 4. One edge of this shank-portion is made straight from the head 2, to its point 5. From this point 5, the other edge of the shank-portion 3, is inclined or beveled as at 6, to the point 7, close to the head 2, of the device, from whence it is inclined inward and back toward the point of the shank 5, to the point 8. Thence the edge is formed in a straight line to the head 2. By thus forming one of the edges of the shank-portion, I provide an incline or bevel from the point 5 to near the head 2, and a recess immediately in rear of the head 2.

In practice after the hoops are applied to the tub, barrel, cask, bucket or other similar article, my improved fastening device is placed with the point 5, close to the under edge of the hoop and is then driven into the tub or other article, and during its entrance the inclined or beveled edge 6, contacting with the under edge of the hoop will slightly raise it from its position until the point 7 is reached when the hoop will resume its position and be relieved by the recess 9, the hoop being then confined between the head 2, and the point 7, and supported vertically by the straight portion of the shank.

As many of my devices may be used to support each hoop as may be found necessary or desirable, but I have found in practice that three of such devices disclosed at equidistant points of the exterior circumference of the article to which the hoop or hoops is or are applied, are preferable.

The device may be driven into the article in such manner that the inclined edge 6 will enter in a straight line, or it may be so driven that said edge 6, will enter in an inclined line, the action being the same in both cases.

It will be seen that by my improved device hoops for tubs and other like articles may be

retained in position and prevented from falling when shrinkage of the article occurs, and that such devices may be readily withdrawn and the hoop driven more tightly on the article when shrinkage renders this necessary, and at the same time the hoop allowed to have an equally close contact at all points with the article to which it is applied.

Having thus described my invention, what I claim is—

The combination with a tub or other vessel having a hoop thereupon, of a hoop sustaining and retaining device consisting of a flattened head 2 and a thin flat sheet metal shank 3 projecting from the center of the flattened head and formed at one edge with the inclined

recess 9 and point 7, located immediately beneath the head, the shank tapering uniformly to a sharpened point 5 and the lower edge of the hoop bearing against the flat head and against the said point 7, one edge of the shank serving to raise the hoop over the said point as the shank is driven into the vessel, substantially as described.

In testimony whereof I have hereunto set my hand and affixed my seal in presence of two subscribing witnesses.

ELLA W. BEAZELL. [L. S.]

Witnesses:

B. H. VAN KIRK,
JAMES S. BEAZELL.