

A. S. RIGGS.

Suspension Staples for Tanning Reels.

No. 148,142.

Patented March 3, 1874.

Fig. 3.

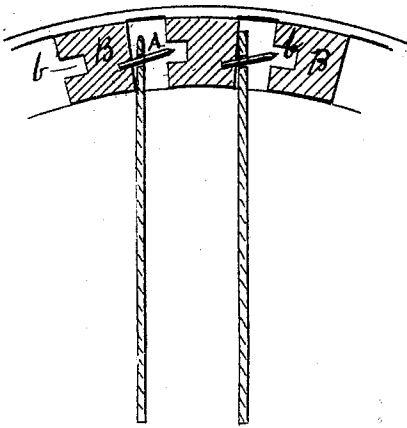


Fig. 4.

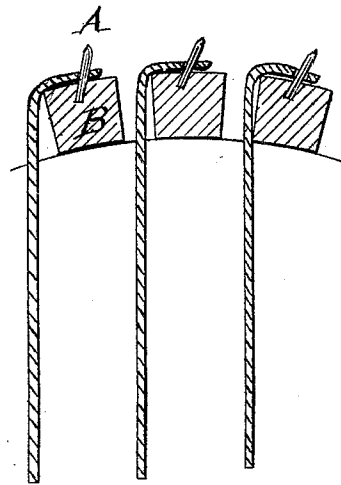


Fig. 1.

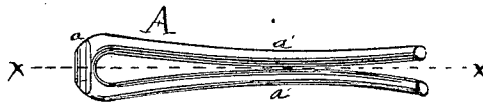


Fig. 2.



WITNESSES:

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ALVIN S. RIGGS, OF CHESTERVILLE, MAINE.

IMPROVEMENT IN SUSPENSION-STAPLES FOR TANNING-REELS.

Specification forming part of Letters Patent No. 148,142, dated March 3, 1874; application filed December 29, 1873.

To all whom it may concern:

Be it known that I, ALVIN S. RIGGS, of Chesterville, in the county of Franklin and State of Maine, have invented a new and useful Improvement in Suspension-Staples for Tanning-Reels, of which the following is a specification:

Figure 1 is a side view of one of my improved staples. Fig. 2 is a detail longitudinal section of the same, taken through the line *x*, Fig. 1. Figs. 3 and 4 are detail views, illustrating the use of the staple.

My invention has for its object to furnish, and consists in, an improved staple for suspending hides, skins, or leather from the slats of a tanning-reel, and which is designed to take the place of the pins, brads, and tenter-hooks now used for that purpose.

A are the staples, which are formed of wire, made of iron, brass, or other composition metal, and may be of any desired length. In making the staples A, the wire is cut into pieces of suitable length, and the said pieces are then bent in the middle, and the arms *a* are pressed together, or nearly together. The ends of the bent wire may be left a little apart, as shown in Fig. 1, so that the spring of the wire may prevent the staples from being drawn out of the holes into which they may be driven. The bend of the staple is then beveled off, at *a*,

upon both sides, to form an edge to enable the staple to cut a hole for itself in the hide or skin to be suspended when it is pressed against the said staple. The staples are then driven into holes *b* in the sides of the reel-slats B, as illustrated in Fig. 3, the hides being kept from slipping off by the adjacent staples, or are driven into the outer edges of the reel-slats in an inclined position, as shown in Fig. 4, the hides hanging down between the slats, and being kept from slipping off the staples by their inclined position.

The advantage which my construction gives over that of others is, that the hide will be better retained thereon as the reel revolves, and, also, that a workman can load and unload more readily and in less time than with the ordinary devices which use hooks, pins, or brads.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

As an article of manufacture, the tanning-reel wire staple A, having on the middle bend the bevel *a*, and having the arms *a'* slightly apart at the end, but nearly together at the middle, as and for the purpose described.

Witnesses: ALVIN S. RIGGS.

GEORGE L. RIGGS,

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