

P. MILES.  
Bail-Ears.

No. 147,343.

Patented Feb. 10, 1874.

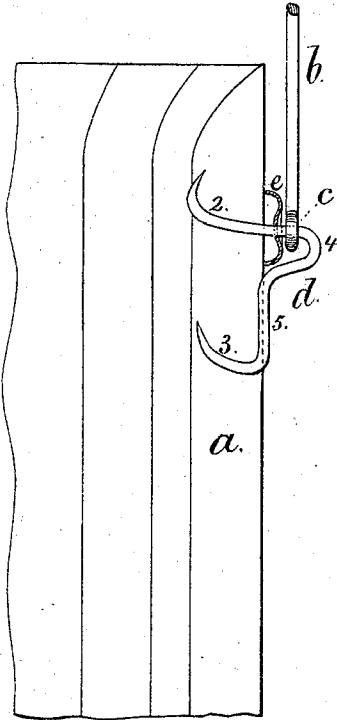


Fig. 1.

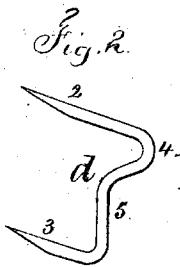


Fig. 2.

Fig. 3.



Witnesses,

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per L. W. Serrell  
 atty

# UNITED STATES PATENT OFFICE.

PURCHES MILES, OF NEW YORK, N. Y., ASSIGNOR TO DOUBLE-POINTED TACK COMPANY, OF SAME PLACE.

## IMPROVEMENT IN BAIL-EARS.

Specification forming part of Letters Patent No. **147,343**, dated February 10, 1874; application filed November 11, 1873.

To all whom it may concern:

Be it known that I, PURCHES MILES, of the city and State of New York, have invented an Improvement in Bail-Fastenings for Pails, Tubs, &c., of which the following is a specification:

Wire staples have been employed to form the fastening eyes for bails, and these have been driven into the wood with the penetrating points nearly at right angles to the surface, and in use they are liable to pull out by the weight.

My invention consists in a bail-fastening staple made of wire with the penetrating ends cut at such an angle that in driving them into the wood they will assume an upward inclination, so that the weight will tend to force such points inwardly rather than to draw them out, and the bending of the ends in clinching will always be upwardly, thus making a much better and more reliable article than heretofore; and I combine with such fastener a convex metallic washer to keep the bail from contact with the wood or the paint thereon.

In the drawing, Figure 1 is a section of the fastening complete. Fig. 2 shows the compound staple fastening separately; and Fig. 3 is an elevation of the washer.

The wood-work *a* represents part of a pail or tub, and the bail *b* is of wire, having eyes *c* at the ends, which are bent so as to stand parallel or nearly so to each other. The com-

pound staple-fastening *d* is made with the penetrating points 2 3, loop 4 for the eye *c*, and the body 5. The ends 2 3 of the wire are cut diagonally, so that in driving them into the wood the tendency is to bend upwardly and clinch, and they will usually be long enough to pass through the wood and be clinched. The body 5 of the fastening stands vertically or nearly so, and will usually be partially embedded in the wood. The sheet-metal washer *e* prevents the eye *c* coming against the wood. The points of the staple penetrate the wood upwardly so as effectually to prevent the staple pulling out under the ordinary strain to which it is subjected.

I claim as my invention—

1. The compound staple-fastening *d* for bails made with the diagonally-cut penetrating points 2 and 3, loop 4, and body 5, said diagonally-cut points being positioned as set forth, so as to bend upwardly in driving into the wood, as set forth.

2. The convex metallic washer *e*, in combination with the compound bail-fastening staple *d*, having upwardly-penetrating points 2 3 and loop 4, as and for the purposes specified.

Signed by me this 1st day of November, A. D. 1873.

PURCHES MILES.

Witnesses:

GEO. T. PINCKNEY,  
CHAS. H. SMITH.