(No Model.)

C. B. PINEO.

THILL TUG.

No. 245,744. Patented Aug. 16, 1881.

Fig. 1.

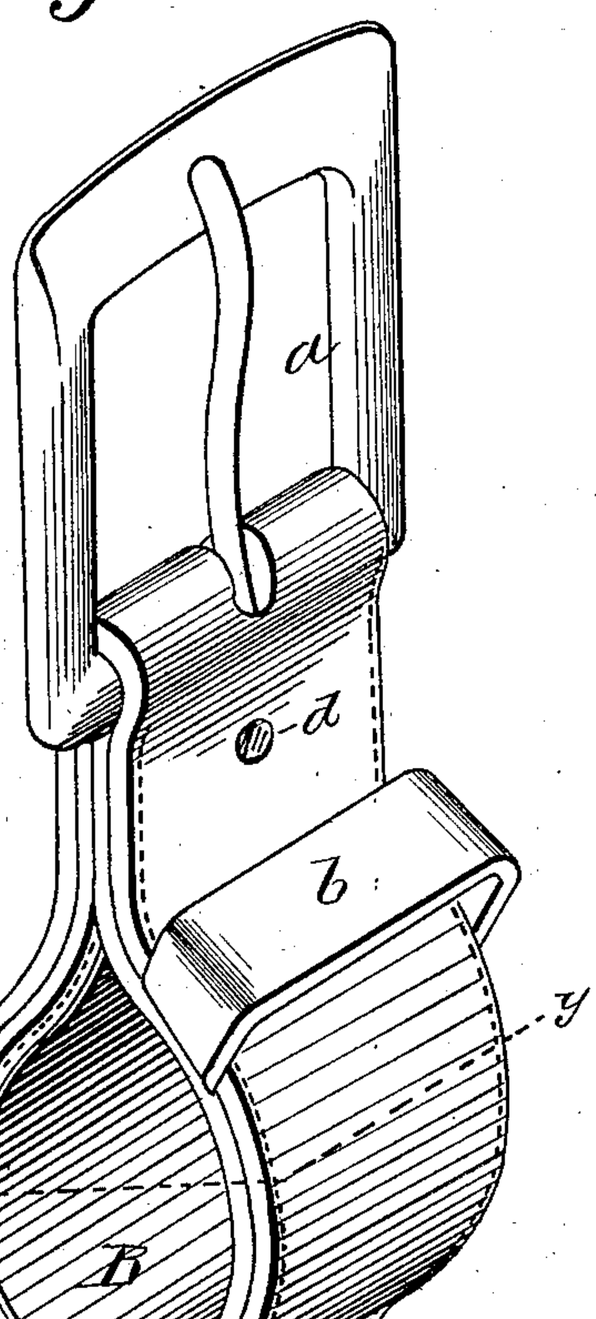


Fig. 3.

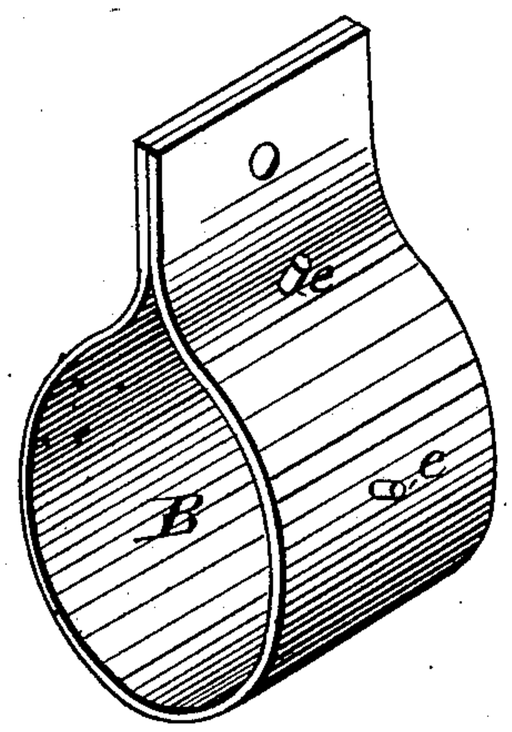
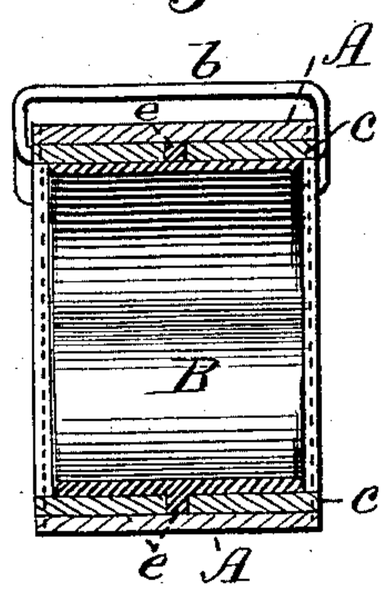


Fig. 2.



Witnesses:
H. C. McArthur.
G. H. Moore

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UNITED STATES PATENT OFFICE.

CHARLES B. PINEO, OF EDEN, MAINE.

THILL-TUG.

SPECIFICATION forming part of Letters Patent No. 245,744, dated August 16, 1881.

Application filed March 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, CHARLES B. PINEO, a citizen of the United States, residing at the town of Eden, in the county of Hancock and State of Maine, have invented certain new and useful Improvements in Thill-Tugs; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my invention. Fig. 2 is a sectional view taken on line *y y* of Fig. 1; and Fig. 3 is a detail view, in perspective, of the metallic lining.

The present invention has relation to certain new and useful improvements in shaft-tugs; and it consists in the construction thereof, as shown in the drawings, and hereinafter described.

In the accompanying drawings, A represents the tug-strap provided with the usual buckle, *a*, and loop *b*. Between the buckle *a* and attached end of the strap A is located a metal lining or facing, B, and between this and the strap is a leather lining, *c*. The metallic lining B extends entirely around the opening in the tug, and the ends are welded together and securely fastened by a rivet, *d*, which passes through the strap A, leather lining *c*, and metallic lining B. The metallic lining is firmly and securely fastened to the leather lining by pins *e*, which are cast on the metallic lining and enter the surface of the lining *c*, which holds it in place. The metallic lining B is made narrower than the strap A and lining *c*, or, in other words, the edges of the strap and lining project beyond the metallic lining to admit of their being stitched or sewed together after the metallic lining has been secured in place. The metallic lining B being narrower than the leather, it not only admits of the leather lining and strap being sewed together along their edges, but gives a neat appearance to the tug and does not wear the saddle, as the ordinary metal tug does; also allows the tug to be removed from the back-band more easily. The metallic lining B being narrower than the strap A and lining *c*, there is no projecting edges to wear sharp and cut the leather on the thill, and will not spread the tug open at the center, causing the leather to wear off at that point, as in other metallic linings that pass only partly around the opening of the tug.

The metallic lining may be nickel-plated, to correspond with the trimmings of the harness, or either of white or other metal, and as the pins are cast on the exterior of the lining they do not show or mar the appearance thereof.

The tug is always in shape to receive the thill, and is much easier on the back-band than the ordinary iron tug.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a thill-tug, the strap A and leather lining *c*, in combination with the metallic lining B, of less width than the strap and leather lining, and passing entirely around the opening of the tug, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHAS. B. PINEO.

Witnesses:
J. E. BERRY,
W. E. COOLIDGE.