No. 679,139. Patented July 23, 1901.

G. BRETT.

DEVICE FOR TIGHTENING HOOPS ON ROUND SILOS, WATER TANKS, BARRELS, &c.

(Application filed Apr. 23, 1901.)

(No Model.)

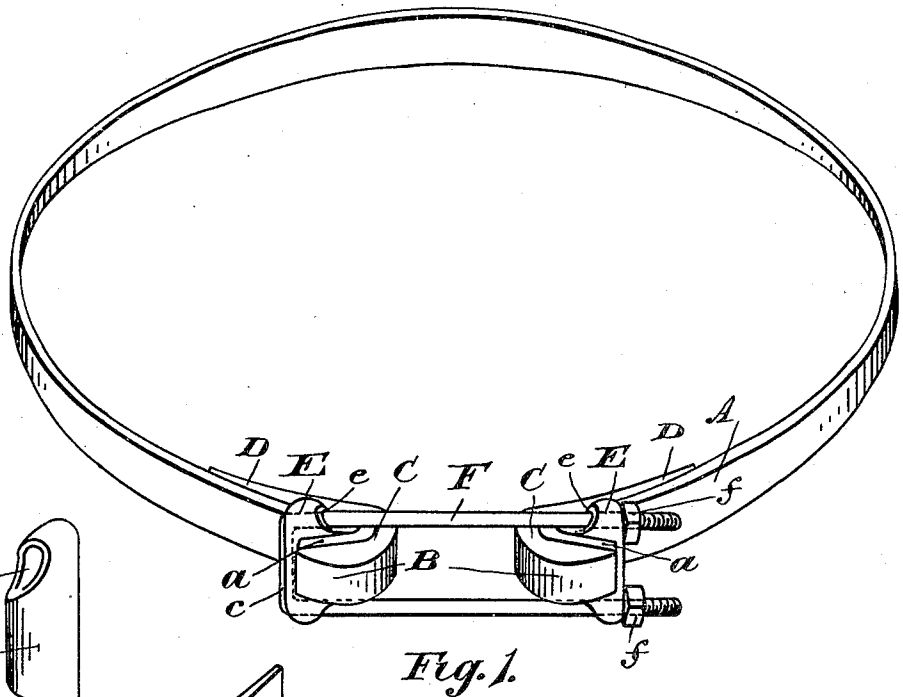


Fig. 1.

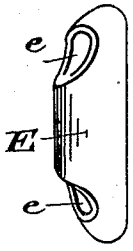


Fig. 4.

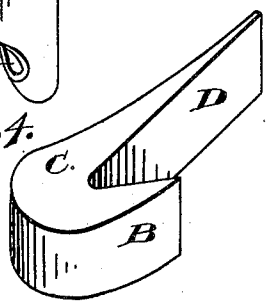


Fig. 3.

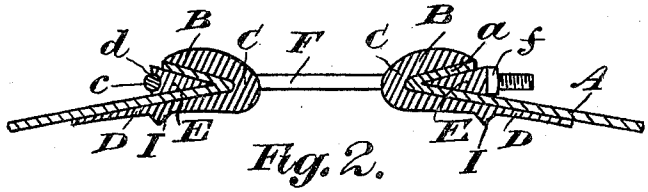


Fig. 2.

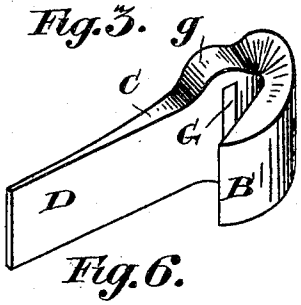


Fig. 6.

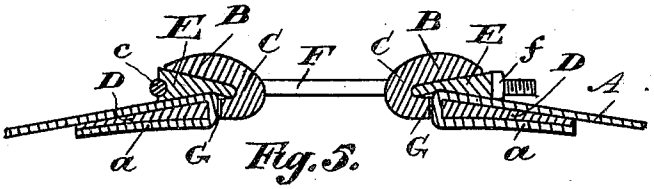


Fig. 5.

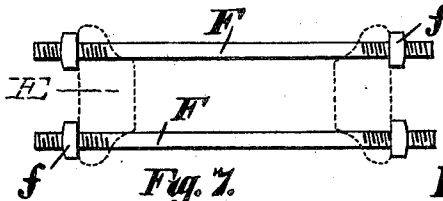


Fig. 7.

Witnesses.
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UNITED STATES PATENT OFFICE.

GEORGE BRETT, OF TORONTO, CANADA.

DEVICE FOR TIGHTENING HOOPS ON ROUND SILOS, WATER-TANKS, BARRELS, &c.

SPECIFICATION forming part of Letters Patent No. 679,139, dated July 23, 1901.

Application filed April 23, 1901. Serial No. 57,150. (No model.)

To all whom it may concern:

Be it known that I, GEORGE BRETT, tank-maker, a subject of the King of Great Britain, and a resident of Toronto, in the county of York, Province of Ontario, Canada, have invented certain new and useful Improvements in Tank-Lugs, of which the following is a specification.

My invention relates to improvements in tank-lugs; and the object of my invention is to design a tank-lug by means of which the hoops encircling tanks, barrels, &c., can be clamped in position and any slackness in the same easily taken up. In utilizing my tank-lug the hoops of the barrel, tank, &c., are divided and each end of the same is secured to a lug by means of a block by means which clamps the two lugs together, as hereinafter more particularly explained.

Figure 1 is a perspective view of a hoop, showing my tank-lugs attached to the ends of same and clamped together. Fig. 2 is a vertical section through the tank-lug and portion of a hoop clamped thereto. Fig. 3 is an enlarged perspective view of one of the tank-lugs. Fig. 4 is an enlarged perspective view of one of the blocks used with the tank-lugs. Fig. 5 is a vertical section through an alternative form of tank-lug. Fig. 6 is an enlarged perspective view of an alternative form of one of the tank-lugs. Fig. 7 shows an alternative form of clamp.

In the drawings like letters of reference indicate corresponding parts in each figure.

The hoop A, encircling the barrel, &c., is divided, and its ends *a a* are bent, as shown, so as to rest against the under side of the lip B of the lug C and the outer side of the stem D of said lug, which stem rests against the body around which the hoop is placed. Placed upon the ends of the hoop A are blocks E, which are provided with holes *e*, through which the clamp F passes, as shown. The ends of the clamp F are threaded, so as to receive nuts *f*. It will now be clearly understood that to tighten the grip of the hoop A around the barrel, &c., it is only necessary to tighten up the nuts *f*. The looped end *c* of the clamp F may be countersunk in its block E, if desired, as shown in Fig. 2 at *d*.

In Figs. 5 and 6 I show an alternative form of lug. I provide in the stem D of the lug C a slot G of the same width as the hoop A. Passing the end *a* of the hoop A through its slot G, I place same between the stem D and the body around which the hoop is placed. The clamps F and blocks E are also used with this alternative form of lug. In providing the alternative form of lug with the slot G the same is reinforced, as at *g*.

It will readily be understood that in place of the looped end *c* of the clamp F, I may thread the ends of same and use nuts *f*. (See Fig. 7.) I do not confine myself to using any particular form or kind of clamp that can be used with my tank-lug.

On the under side of the preferred form of lug (shown in Fig. 2) I preferably provide a spur I. When the hoop A is placed around the body it embraces and the ends of the hoop placed in position, the spurs I are jammed into the wood of said body, so as to temporarily hold the lugs C in place until the ends *a a* of the hoop A are firmly clamped between the blocks E and the lugs C. The gradual tightening of the clamp F after the ends *a a* are tightly gripped of course draws the lugs C toward each other, and thus tightens the hoop A.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a tank-lug, the combination with the first lug comprising a stem and a lip, the said stem being much longer than said lip; between the said stem and lip being a wedge-shaped space in which, and against said lip and stem, one end of a hoop to be clamped, rests, and a wedge-shaped block placed between said lip and stem and upon the said end of the hoop to be clamped, the said wedge-shaped block being provided on each side with a hole which extends beyond the sides of said first lug, of a second lug comprising a stem and a lip, the said stem being much longer than said lip; between the said stem and lip being a wedge-shaped space in which, and against said lip and stem, the other end of the hoop to be clamped, rests, a wedge-shaped block placed between said lip and stem and upon the said other end of the hoop to be clamped, the said wedge-shaped block being provided on each side with a hole which extends beyond the sides of said second lug, a clamp passing through the holes in said wedge-

shaped blocks, the looped end of said clamp resting against one of the said wedge-shaped blocks, and the threaded ends of said clamp extending beyond the other wedge-shaped block, and a nut screwed on each threaded end of said clamp and jammed against said other block, thus clamping said blocks and said lugs together so as to hold the ends of said hoop tightly in place, and hold said hoop tightly around the body it embraces, as described.

2. In a tank-lug, the combination with a first lug provided with a lip, and a spur-provided stem which is longer than said lip, against which lip and stem one end of a hoop to be clamped rests, and a block placed between said lip and said stem and upon the end of the hoop to be clamped, the said block being provided with two holes which extend beyond the sides of said first lug, of a second lug provided with a lip, and a spur-provided stem which is longer than said lip, against which lip and stem the other end of the hoop to be clamped rests, a block placed between said lip and said stem of said second lug and upon the said other end of said hoop, the said block being provided with two holes which extend beyond the sides of said second lug, a clamp passing through the holes in said blocks, the looped end of the said clamp resting against one of the said blocks and the threaded ends of said clamp extending beyond the other block, and a nut screwed on each threaded end of said clamp and jammed against said other block, thus clamping said blocks and said lugs together so as to hold the ends of said loop tightly in place, and hold said hoop tightly around the body it embraces, as and for the purpose specified.

Dated at Toronto the 9th day of March, 1901.

GEORGE BRETT.

In presence of—

FRED. W. MONTEITH,

CLARENCE W. NORTHCOTT.