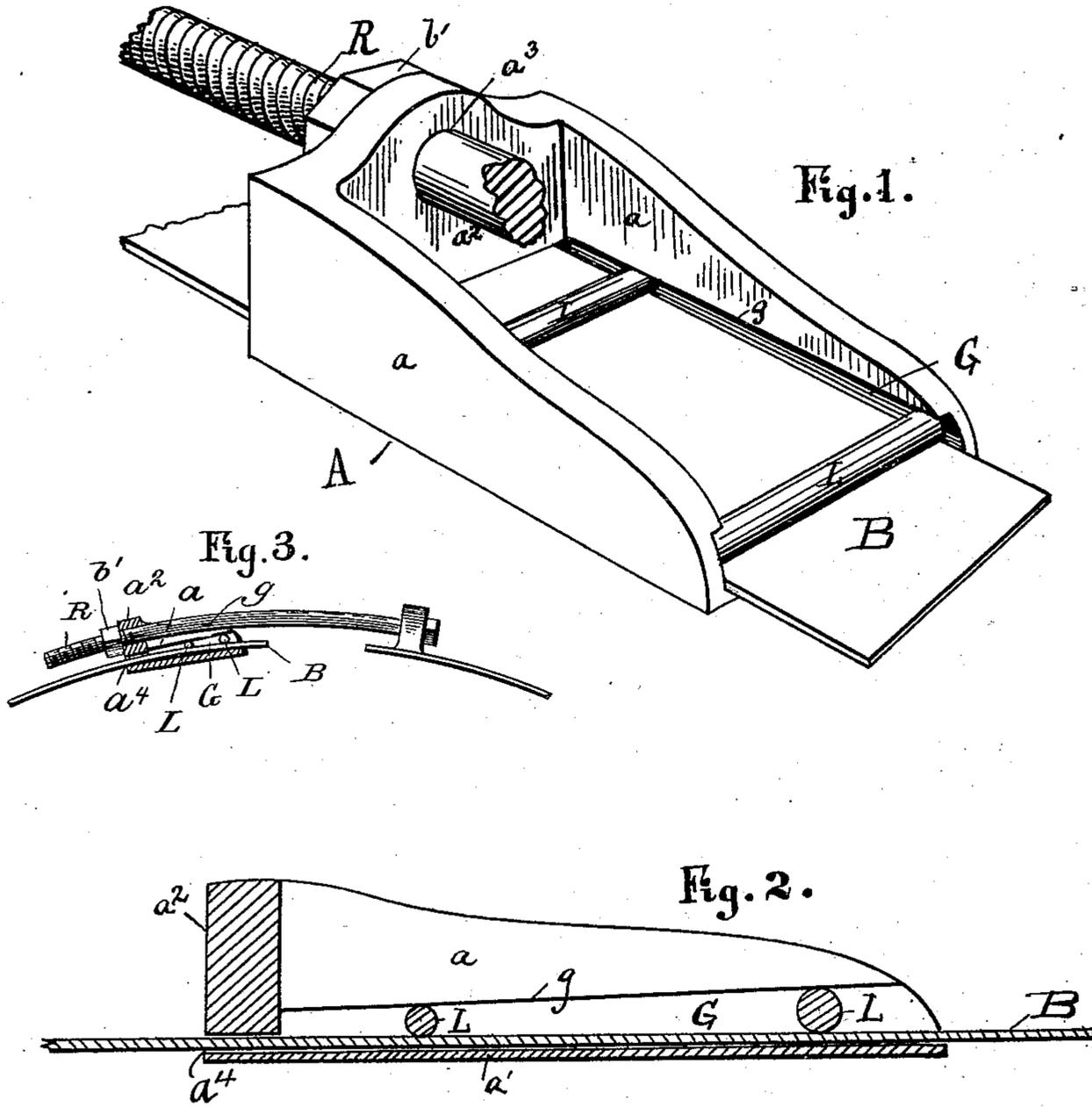


(No Model.)

F. BERGQUIST.  
FASTENING FOR TANK BANDS.

No. 472,723.

Patented Apr. 12, 1892.



Witnesses:  
*E. E. Clement*  
*J. M. H. Jacobson*

Inventor:  
*Frank Bergquist*  
by *Lewis Abraham*

Attorney.

# UNITED STATES PATENT OFFICE.

FRANK BERGQUIST, OF BELOIT, WISCONSIN, ASSIGNOR TO THE MOLINE PUMP COMPANY, OF MOLINE, ILLINOIS.

## FASTENING FOR TANK-BANDS.

SPECIFICATION forming part of Letters Patent No. 472,723, dated April 12, 1892.

Application filed November 24, 1891. Serial No. 412,998. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK BERGQUIST, a citizen of the United States, residing at Beloit, in the county of Rock and State of Wisconsin, have invented a new and useful Improvement in Fastenings for Tank-Bands, of which the following is a specification.

My invention relates to fastenings for tank-bands; and it consists in a novel form of lugs constructed with inclined side grooves to receive movable rollers, which will be drawn along within said grooves when the lug-rod is screwed up, and thereby firmly tighten the band, all as hereinafter fully described, illustrated in the drawings, and specifically pointed out in the claim.

Referring to the accompanying drawings, in which like letters of reference point out similar parts in each view, Figure 1 is a perspective view of a lug embodying my invention, showing part of a tank-band therein and a portion of the lug-rod and its operative nut. Fig. 2 is an inside view of one of the sides of the device. Fig. 3 is a view representing two ends of the band coupled according to my invention.

In the drawings, A is the lug, having sides  $a$ , bottom  $a'$ , and back piece  $a^2$ , the latter provided with orifice  $a^3$  to receive the rod R, which rod is screw-threaded part of its length and is supplied with threaded nut  $b'$ , for a purpose presently set forth. Said back is also supplied with a slot  $a^4$  for passage therethrough of the tank-band. Each side  $a$  upon its inner face is cut away to form a continuous trapezoidal recess or grooved way G. As illustrated in the drawings, the lower limit of said groove is in a right line along and following the plane of the upper surface of the bottom  $a'$  and extending the full length thereof, while the upper limit  $g$  of said recess inclines obliquely from front to rear, thus forming a grooved way that gradually tapers from front to rear of the device.

B is the tank-band, the ends of which in practice are introduced through the slot within the lug and lie flatly on the bottom  $a'$ . Loosely overlying said band transversely are rollers L L, the opposite ends of said rollers being inserted within the grooved ways G.

In Fig. 3 of the drawings I show opposite

ends of a tank-band coupled together, said figure illustrating a single lug constructed according to my invention; but in practice preferably two lugs are employed, that the terminal-ends of the band are respectively introduced within a lug A, and that then rollers L are placed upon said band, their opposite ends being inserted within grooves G. When the threaded nut is turned upon the rod R, it will have the effect of drawing the opposite lugs together, causing the rollers L to turn axially within the grooves from the wider toward the narrower end thereof. The effect will be that said rollers will press down upon the surface of the band B and securely wedge it down upon the bottom of the lug. The closer the two lugs are drawn together the greater will be the grip of the band by compression of the rollers thereon as their ends progress along the wedge-shaped grooves G at the opposite sides  $a$ . To loosen the grip, the nuts  $b'$  are reversed upon the rod R, and the rollers L will thus be released from tension and can be turned toward the larger end of the grooves.

From the foregoing description, in connection with the drawings, the nature and object and practice of my invention will be readily understood by all familiar with analogous devices.

Having now fully described my invention and the manner of its operation, what I claim, and desire to secure by Letters Patent of the United States, is—

A tank-lug having a flat bottom  $a'$ , opposite sides  $a$ , uprising at right angles thereto, each of said sides having upon its inner face the full length thereof a trapezoidal recess G, and a transverse back piece  $a^2$ , firmly connecting the two sides, said back piece orificed for reception of a rod R and further provided with slot  $a^4$  for free passage of tank-band B, all in combination with transverse movable rollers L, the opposite ends of which loosely lie within the side recesses, as and for the purpose intended, substantially as described.

FRANK BERGQUIST.

Witnesses:

R. H. MILLS,  
J. G. WICKHAM.