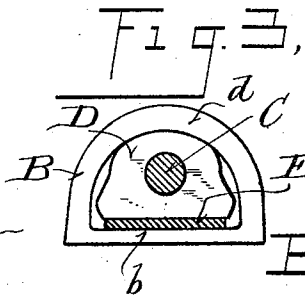
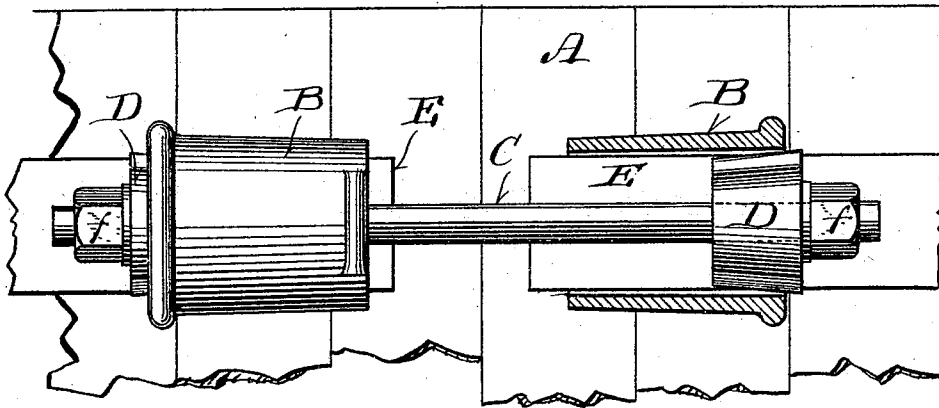
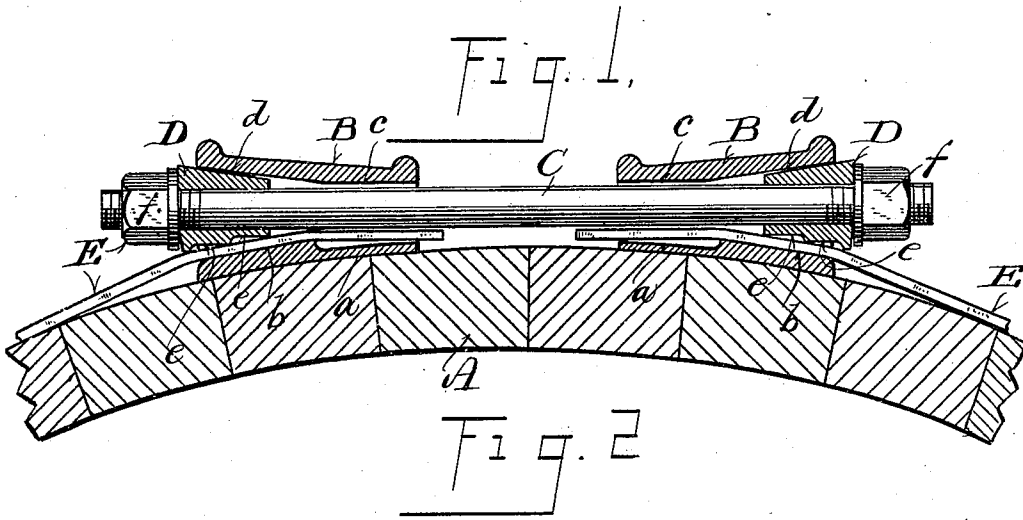


(No Model.)

E. C. TECKTONIUS.  
BAND FASTENING.

No. 516,690.

Patented Mar. 20, 1894.



Witnesses,  
J. W. Sumbarger  
Geo. W. Young.

Inventor,  
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# UNITED STATES PATENT OFFICE.

EMIL C. TECKTONIUS, OF RACINE, WISCONSIN.

## BAND-FASTENING.

SPECIFICATION forming part of Letters Patent No. 516,690, dated March 20, 1894.

Application filed January 20, 1894, Serial No. 497,519. (No model.)

*To all whom it may concern:*

Be it known that I, EMIL C. TECKTONIUS, a citizen of the United States, and a resident of Racine, in the county of Racine, and in the State of Wisconsin, have invented certain new and useful Improvements in Band-Fastenings; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to band fastenings, especially such as are designed for use upon casks, tanks, and similar wooden vessels, and it consists in certain peculiarities of construction and combination of parts, as will be fully set forth hereinafter and subsequently claimed.

In the drawings: Figure 1 is a horizontal sectional view through a vessel, having my improvements applied thereto. Fig. 2, is a plan view of the same, with one of the castings shown in section, and Fig. 3 is a detail end view of my fastening device, with the coupling bolt and band shown in section.

My present invention is an improvement on the device patented to me December 29, 1891, and numbered 465,954, and like that device, its object is to provide a simple, cheap and efficient means for securing bands or hoops around casks, tanks and similar vessels, without employing rivets or like devices, so that an old or defective band may be readily removed, and also to provide for the adjustment of the band in use when rendered necessary by the shrinking or swelling of the vessel, and further to generally simplify the construction of the device shown in said patent, whereby the preliminary bending of the ends of the band or hoop may be dispensed with.

A designates a vessel to which my device is to be applied.

B B represent hollow metallic castings, designed to rest upon the exterior of said vessel, these castings being exactly alike, but applied, as shown, with their smaller ends facing each other. These castings taper or diminish exteriorly, from one end to the other, and their bores or openings similarly taper from their larger outer ends to a point at about the vertical center of the castings. The inner bottom wall of the tapered portion of

said bore is in the form of a flat upward extending plate *b* beyond which the metal may be reduced, or cut away, as shown at *a*, or partially cut out, as preferred, so as not to interfere with the passage through the castings of the coupling bolt C, and for the same reason the upper inner wall of the bore may be cut away on a straight line, as shown at *c*. The outer upper wall *d* of the casting is preferably rounded or semi-circular in form to coincide with the rounded tapered top of the clamping wedge D, as best shown in Fig. 3. The under side of this clamping wedge D is formed with a series of transverse corrugations *e e* whose edges bear against the adjacent surface of the band or hoop E, as best shown in Fig. 1. The outer ends of the coupling bolt C are screw-threaded, and provided with nuts *f f*. The clamping wedges D are formed with longitudinal perforations for the reception of the said bolt.

The operation of my device will be readily understood from the foregoing description, in connection with the accompanying drawings. The band E is carried around the vessel in the usual manner, and the ends of said band are passed through the bores in the castings B B. The clamping wedges D D are then inserted within the said bores, above the band ends, and the coupling bolt C is passed through the described perforations in said wedges, and the nuts *f f* applied and tightened to place, forcing the castings B B toward each other, as the nuts are screwed up, while at the same time the wedges D D are thereby forced farther into the bores in said castings, and as the tops of said wedges coincide with the inner surface of the tops of the castings, the corrugations *e e* in the bases of the said wedges bear against the bands, and drive the band ends toward each other, and prevent any possibility of the slipping of the said band ends during this operation.

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

The combination with a band of a pair of hollow tapered metallic castings having flat base plates, adapted to receive the ends of the said band, tapered longitudinally-perforated

clamping wedges, whose upper portions coincide in shape with the under surface of the tapered upper wall of said castings, and having tapered under sides formed with series of transverse corrugations, and a coupling bolt passing through and connecting the said clamping wedges, and provided with suitable tightening nuts.

In testimony that I claim the foregoing I have hereunto set my hand, at Racine, in the county of Racine and State of Wisconsin, in the presence of two witnesses.

EMIL C. TECKTONIUS.

Witnesses:

EDGAR JANES,  
J. W. JOHNSON.