

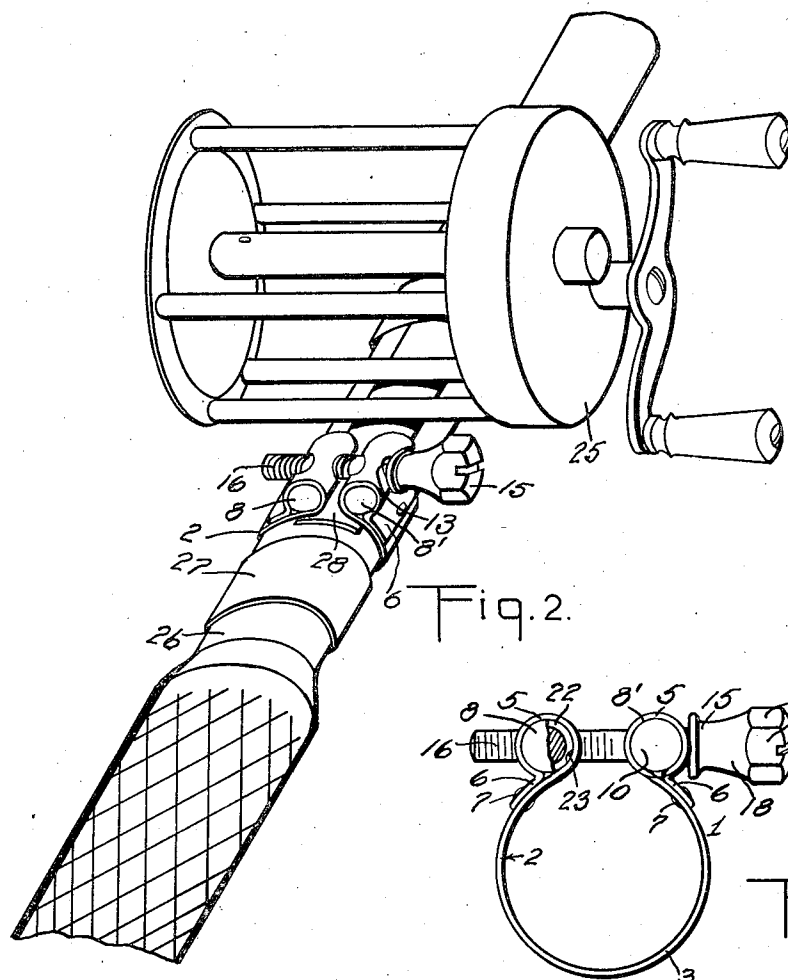
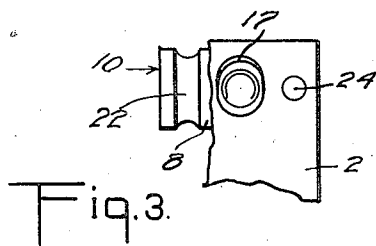
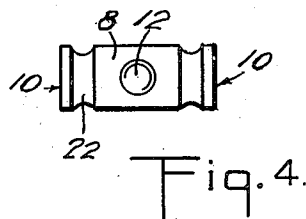
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LOCKING BAND

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## UNITED STATES PATENT OFFICE

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## LOCKING-BAND

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2 Claims. (Cl. 24—19)

This invention relates to improvements in locking-bands; and the especial object thereof is to provide a band-clamp for fishing-rods and other analogous purposes of simple and practicable construction which may be quickly and positively applied to lock a reel upon a fishing-rod without distortion of the band from its proper circular form or place undue stress upon the screw.

10 A further object of the invention is the provision of a locking-band of the class described having a pair of trunnion-blocks of novel construction rotatably mounted in its opposing ends through which the screw is engaged and screw-threaded and which admit of complete self-adjustment and accommodation to any position of the screw without lateral strain or distortion thereof.

15 A still further object of my invention resides in the provision of the trunnion-blocks forming a distinctive element in my improved locking-band together with the provided means for securing said blocks in operative condition.

20 Other objects and advantages residing in my invention, and objects relating to details of construction and various arrangements of parts thereof, will be readily understood from the detailed description thereof to follow.

25 The accompanying drawing illustrates by way of example a representative form of my invention, in which:

30 Figure 1 is a view in end elevation of a locking-band embodying my invention, partly broken away.

35 Fig. 2 is a pictorial view of the handle portion of a fishing-rod shown with a reel mounted thereon by means of my improved locking-band.

40 Fig. 3 is a fragmentary view in side elevation of the locking-band of my invention upon an enlarged scale, partly broken away.

Fig. 4 is a detached view in side elevation of one of the trunnion-blocks.

Referring to said views, the reference numeral 1 indicates, generally, my improved locking-band, comprising a strap 2 of sheet metal whose middle body portion 3 is formed cylindrically and terminating at each end in a tubular housing 5, the strap at each end being turned outwardly to form the respective housing and is extended in a tongue 6 along the outer surface of the body where it is secured by a rivet 7. In each said housing is positioned a trunnion-block 8, 8' of cylindrical configuration and of diametrical dimensions to turn freely therein without slackness, and whose plane ends 10 will be substantial-

ly flush with the opposite edges of the housings. The block 8 is provided with a screw-threaded, diametrically extended bore 12 at about its mid-length while the block 8' is similarly provided with a somewhat larger smooth bore 13 adapted to be opposed to the bore 12.

A screw-bolt 15 is formed with a screw-threaded shank 16 at one end adapted to extend freely through the bore 13 of the block 8' and into threaded engagement in the bore 12 of the block 8, the housings being cut away, as at 17, on their opposite sides to admit of the entry and movement of the screw therein. The opposite end of said screw-bolt is formed with a head 18 having flat faces 20 of hexagon or other configuration for the employment of the fingers or a wrench in manipulating the screw and a slot 21 in its extremity for the use of a screw-driver or a coin in operating the screw.

Each said trunnion-block is formed with an annular groove 22 adjacent one or both ends into which when positioned in the respective housing an indented projection 23 may be made formed in the housing walls, as by a punch-prick 24, to serve as a key to prevent the dislodgment of the trunnion-blocks from the housings when the screw is removed from its engagement with the blocks and allowing full freedom of rotation of the blocks.

From an inspection of Fig. 2 one of the many applications of my improved locking-band will be seen, wherein it positively secures the reel 25 upon the rod 26 instead of the usual slide-ring 27. To utilize the locking-band the screw-bolt 15 is disengaged from the trunnion-blocks whereupon the strap 2 may be expanded to grasp about the rod and over the securing-plate 28 of the reel in place of the slide-ring 27. The screw-bolt is then extended through the bore 13 of the trunnion-block 8' and into the screw-threaded bore 12 of the block 8 and screwed therein to bring the head 18 into engagement with the block 8' whereupon continued turning of the screw-bolt will cause the two ends of the strap enclosing the trunnion-bolts to close and tighten the strap about the rod to the desired amount of tension.

It will be seen that the trunnion-blocks 8 and 8' are free to turn in the housings 5 and will accommodate themselves automatically as they approach or recede from each other to the straight line required to receive the screw-bolt without cramping or bending the screw-bolt or by distorting the strap from its normal circular conformation and thereby providing a safer and more secure clamp for the reel and increasing

the life and period of usefulness of the locking-band.

It will be obvious that the device as described or with slight modifications within the skill of most artisans may be adapted to other purposes than that illustrated, as, for example, a hose-clamp, and such modifications as are within the scope of the appended claims are contemplated as brought within the protection sought.

Having described my invention, what I claim, is:—

1. A locking-band, comprising a circular strap having a tubular housing at each end formed with aligned openings, a cylindrical trunnion-block rotatively mounted in each said housing, said blocks having transverse bores in alignment with said housing-openings, one of said bores being screw-threaded, an indentation-key formed from each of said housings, each said block hav-

ing an annular groove therein to receive one of said indentation-keys, and a screw-bolt extending through said bores and threaded in said screw-threaded bore.

2. A locking-band, consisting in a circularly formed strap having an integral housing at each end, each said housing being formed with a pair of openings, all of said openings being in alignment, a cylindrical trunnion-block rotatively mounted in the respective housings formed with transverse bores in alignment with the housing-openings, one of said bores being screw-threaded, each said block having an annular groove therein, said straps being formed with indentations extending into the respective grooves, and a screw-bolt extending through said bores and threaded in said screw-threaded bore.

CLIFFORD R. IRWIN.