

No. 721,539.

PATENTED FEB. 24, 1903.

P. H. BRUINEKOOI.
BAND FASTENER FOR TANKS.
APPLICATION FILED AUG. 28, 1902.

NO MODEL.

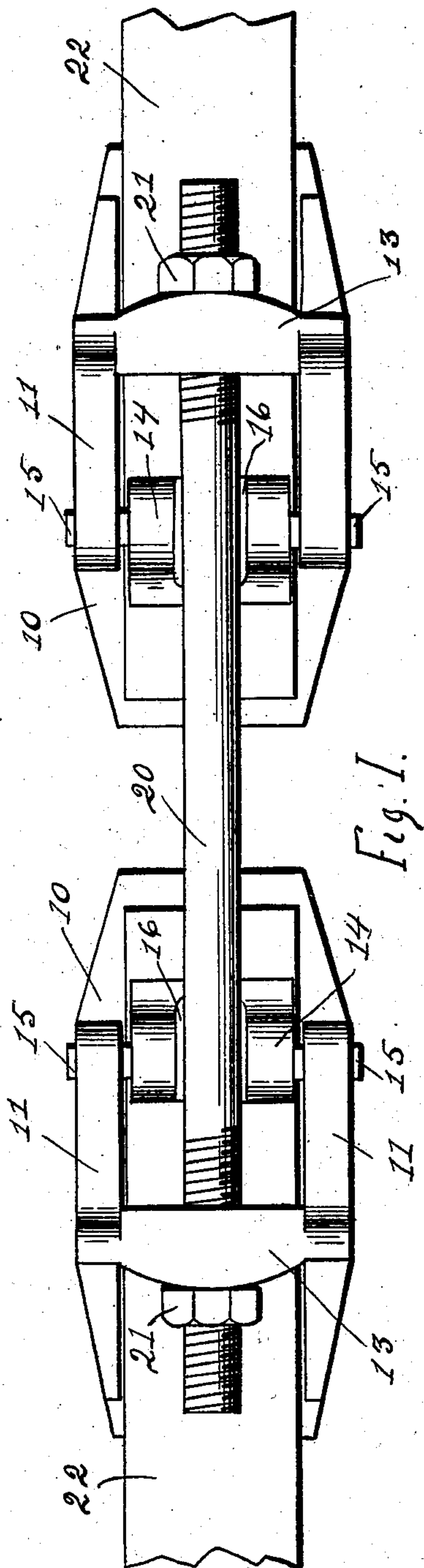


Fig. 1.

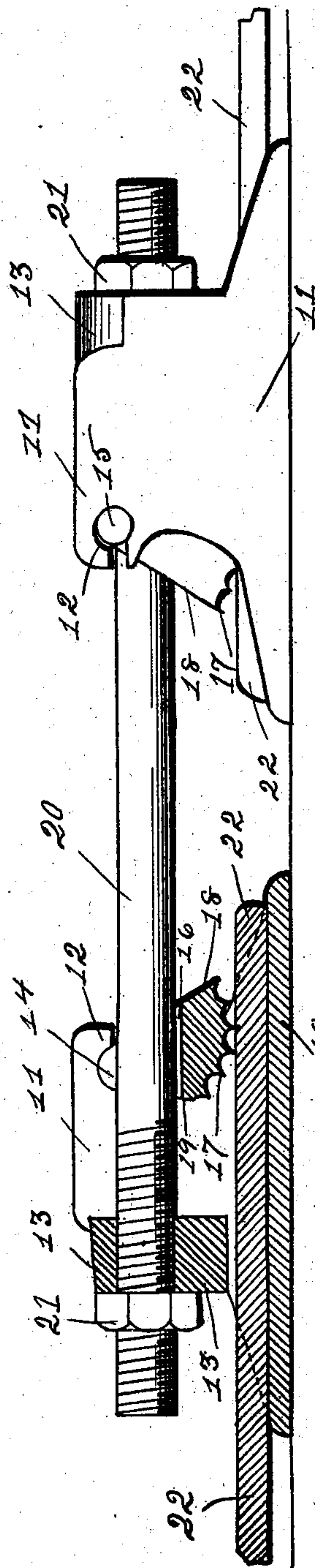


Fig. 2.

Witnesses:
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by

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UNITED STATES PATENT OFFICE.

PETER H. BRUINEKOOL, OF PELLA, IOWA.

BAND-FASTENER FOR TANKS.

SPECIFICATION forming part of Letters Patent No. 721,539, dated February 24, 1903.

Application filed August 28, 1902. Serial No. 121,410. (No model.)

To all whom it may concern:

Be it known that I, PETER H. BRUINEKOOL, a citizen of the United States, residing at Pella, in the county of Marion and State of Iowa, have invented certain new and useful Improvements in Band-Fasteners for Tanks, of which the following is a specification.

The objects of my invention are to provide a band-fastener of this class of simple, durable, and inexpensive construction that may be made without machine-work and that may be used in connection with bands without the necessity of perforating the bands or riveting to the bands or of bending the ends of the bands in order to attach them to the lugs of the fastening device—that is to say, the lugs may be connected with the ends of the bands without in any way altering or changing the bands to adapt themselves to the lugs.

A further object is to provide a device of this class in which the ends of a band may be drawn together a certain distance and then, if desirable, one or both of the lugs may be detached from the ends of the band and connected therewith at different points, so that the ends of the band may be drawn nearer to each other.

My invention consists in certain details in the construction, arrangement, and combination of the various parts of the device whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claim, and illustrated in the accompanying drawings, in which—

Figure 1 shows a top or plan view of the complete fastening device having the ends of a band inserted therein, and Fig. 2 shows a side elevation of same with one of the lugs shown in section.

Referring to the accompanying drawings, it will be noted that the lugs are exact counterparts of each other, so that only one will be hereinafter particularly described.

The reference-numeral 10 indicates a substantially flat base having the parallel upright sides 11, and in each of the parallel sides 11 is an opening to receive a journal, and the part of the side piece 11 above the opening is bent downwardly at 12 to hold the journal in the opening, it being understood that the lug is cast complete of malleable

metal, so that these ends 12 may be bent downwardly after the journals are placed in position. Connecting the side pieces 11 is a rigid integral cross-piece 13, having a horizontal opening through it. Each lug is provided with a pivoted pawl, the body portion of which is indicated by the numeral 14. On the ends of the pawl are the integral journals 15 to pass through the openings in the sides 11 and to be held in place by the ends 12. At the central top portion of the pawl 14 is a recess 16, the bottom of which is slightly beneath the bottom of the opening through the cross-piece 13. The lower edge of the pawl 14 is serrated at 17, and the outer face of the pawl (indicated by the numeral 18) is somewhat longer from the center of the journal 15 to its extremity than is the rear face 19 of the pawl, so that as the pawl moves rearwardly toward the cross-piece 19 its serrated lower edge will move downwardly toward the base 10.

The numeral 20 indicates a rod screw-threaded at both ends, passed through the openings in the cross-piece 13, through the recesses 16 in the pawl, and the nuts 21 are placed on their ends in engagement with the outer faces of the cross-pieces 13.

In practical use and assuming that the band (indicated by the numeral 22) is passed around a tank and its ends are in position adjacent to each other, the lugs are then placed against the outside surface of the tank adjacent to each other. Then the ends of the band are passed between the cross-pieces 13 and the bases 10 of the lugs until they are drawn as tightly as may be done by hand. When in this position, the pawls 18 are made to engage the end portions of the band to hold them from slipping apart. Then the bolt 20 is passed through the cross-pieces 13 and the nuts 21 are placed on their ends and drawn tight. Obviously as these nuts are drawn up the corrugations of the pawls will be forced more firmly into engagement with the ends of the band and the lugs will slide upon the tank toward each other, thereby drawing the ends of the bands together. If the lugs should come together before the band was sufficiently tight, it would be necessary to release one of the nuts 21 until the tension on one of the pawls would be removed sufficiently to per-

mit the one lug being moved away from the end of the band until the pawl engaged the band at a point farther from its end. Then by again tightening up the nut the ends of the
 5 band could be drawn more closely together than before.

Obviously the device is connected with the ends of a band very quickly and easily, and when once adjusted to position, so that the
 10 band is tightly drawn, it will be firmly held and at any time can be readjusted and tightened.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States therefor, is—
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An improved band-fastener for tanks, comprising in combination two independent frames, each having a substantially flat base, upright sides having openings therein to re-

ceive a journal, and an integral cross-piece 20 connecting the sides arranged a slight distance above the base and having an opening through its central portion parallel with the base, a pivoted pawl having journals passed through the openings in the side pieces and having a 25 central recess substantially in line with the opening in the cross-piece, and having an eccentric, toothed, lower end, and a bolt passed through the cross-pieces of the two lugs, through the recesses in the pawls, and nuts on 30 the end of the bolt resting against the outer faces of the cross-pieces, substantially as and for the purposes stated.

PETER H. BRUINEKOOL.

Witnesses:

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