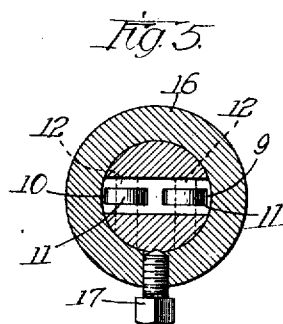
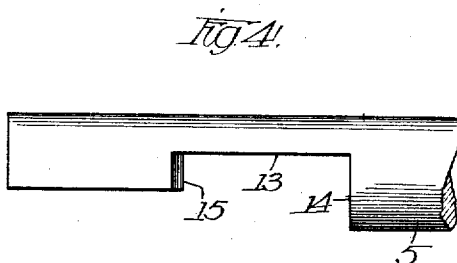
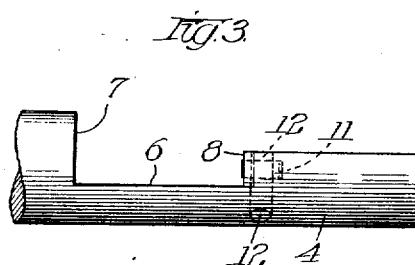
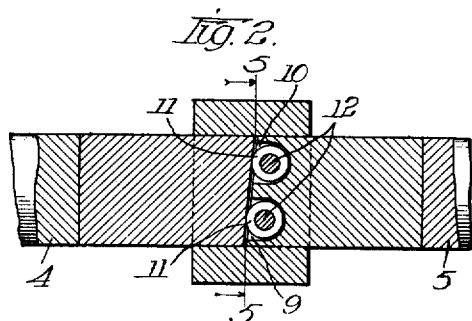
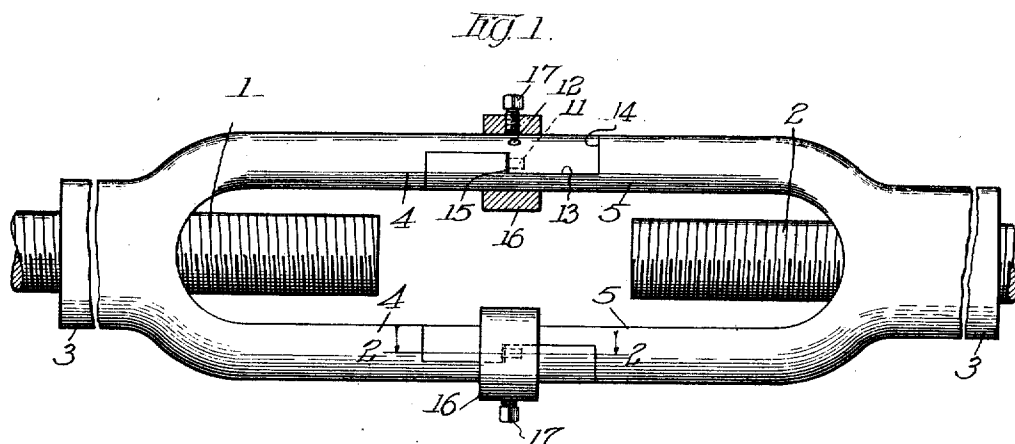


A. W. GUSTAFSSON.
TURNBUCKLE.
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1,011,949.

Patented Dec. 19, 1911.



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UNITED STATES PATENT OFFICE.

AUGUST WILLHELM GUSTAFSSON, OF LONG ISLAND CITY, NEW YORK.

TURNBUCKLE.

1,011,949.

Specification of Letters Patent.

Patented Dec. 19, 1911.

Application filed April 21, 1911. Serial No. 622,605.

To all whom it may concern:

Be it known that I, AUGUST WILLHELM GUSTAFSSON, a citizen of Finland, residing at Long Island City, in the county of Queens and State of New York, have invented certain new and useful Improvements in Turnbuckles, of which the following is a specification.

This invention relates to turnbuckles and its object is to produce a device of this class whose component parts may be readily assembled or dismembered.

With the foregoing and other objects in view the invention consists in the combination and arrangement of parts to be hereinafter fully described in the following specification, pointed out in the claims and illustrated in the accompanying drawing which forms a part of said specification and in which—

Figure 1 is a plan of the device. Fig. 2 is a section taken on line 2—2 of Fig. 1. Figs. 3 and 4 each illustrate one extremity of either component part of the device. Fig. 5 is a vertical section taken on the line 5—5 of Fig. 2.

Like reference characters indicate corresponding parts throughout the several views.

1 and 2 represent threaded rods that are to be connected by my turnbuckle.

The turnbuckle comprises a pair of barrel sections 3 and 4 each being provided with a central threaded bore for the admission of the rods 1 and 2 and which branch out to form buckle arms 4, 4 and 5, 5 respectively which are bulged outwardly with respect to the barrel sections from which they emanate and the adjacent ends or free terminations of which arms are adapted to interlock. The body of either arm 4 is recessed near its free extremity as at 6 thus forming shoulders 7 and 8, one at either end of the said recess, the latter shoulder being nearer the free termination of the said arm and of less depth than the former shoulder.

The body of the arm 4 is provided with a pair of horizontally disposed recesses 9 and 10 lying in the same plane and extending from the shoulder 8 toward the free termination of the said arm for the reception in each of a wheel 11 which is retained in position by a pin 12 disposed parallel to the shoulder 8 and adjacent thereto and extending almost entirely through the body of the said arm between the shoulder 8 and the free termination. The wheels 11 are so po-

sitioned that the periphery of each barely protrudes into the slotted portion 6 of the arm.

The body of either arm 5 is recessed near its free extremity as at 13 thus forming a pair of shoulders 14 and 15, the latter being nearer the free extremity of the said arm and of less depth than the former shoulder. The free extremities of arms 4, 4 are adapted to interlock with the free extremities of arms 5, 5, the extremity of the arms 5 lying beyond the shoulder 15 being adapted to reside in the recessed portion 6 of the arms 4 and the extremity of the arms 4 lying beyond the shoulder 8 being adapted to reside in the recess 13 of the arms 5; in this position it is seen that the shoulder 15 or free termination of either arm 5 will contact with the periphery of the wheels 11 of arms 4 as shown in Fig. 2, which arrangement facilitates the dismembering of the device when this operation is desired as the extremities of the arms 5 will travel over the circumferences of the wheels 11 in the plane of their rotation with the minimum amount of friction until they are out of engagement with the arms 4. To prevent lateral movement of the arms 4, 4 and 5, 5 independently of each other which would unlock the sections a circular band 16 is provided which is adapted to encircle the engaged section extremities and which is held in place by a set screw 17 piercing the said band and contacting with one arm. To disengage the component sections of the device the screw 17 is loosened when the band 16 may be slid away from the interlocking section extremities.

What I claim is:—

1. A turnbuckle comprising a pair of oppositely disposed sections adapted to interlock terminally, vertical shoulders formed near the interlocked terminations of each section between which shoulders the said sections are recessed; the body of one section being horizontally recessed between its locking terminations and the adjacent shoulders, a wheel disposed in each horizontal recess of the said section and a band removably encircling the interlocked terminations.

2. A turnbuckle comprising a pair of oppositely disposed sections adapted to interlock terminally, vertical shoulders formed near the locking terminations of each section between which the said sections are recessed; the body of one section being horizontally

recessed between its locking terminations and the adjacent shoulders, a wheel disposed in the said horizontal recess for engagement with the termination of the co-acting section, a pin disposed in said section for engagement with the said wheel and a band removably encircling the interlocked section terminations.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in the presence of two subscribing witnesses.

AUGUST WILLHELM GUSTAFSSON. [L. s.]

Witnesses:

CHARLEY GUSTAFSSON,
ALFRED MALMSTRÖM.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."