No. 763,080. PATENTED JUNE 21, 1904.

J. TAYLOR.

ROD COUPLING.

APPLICATION FILED FEB. 6, 1904.

NO MODEL.

Fig. 1.

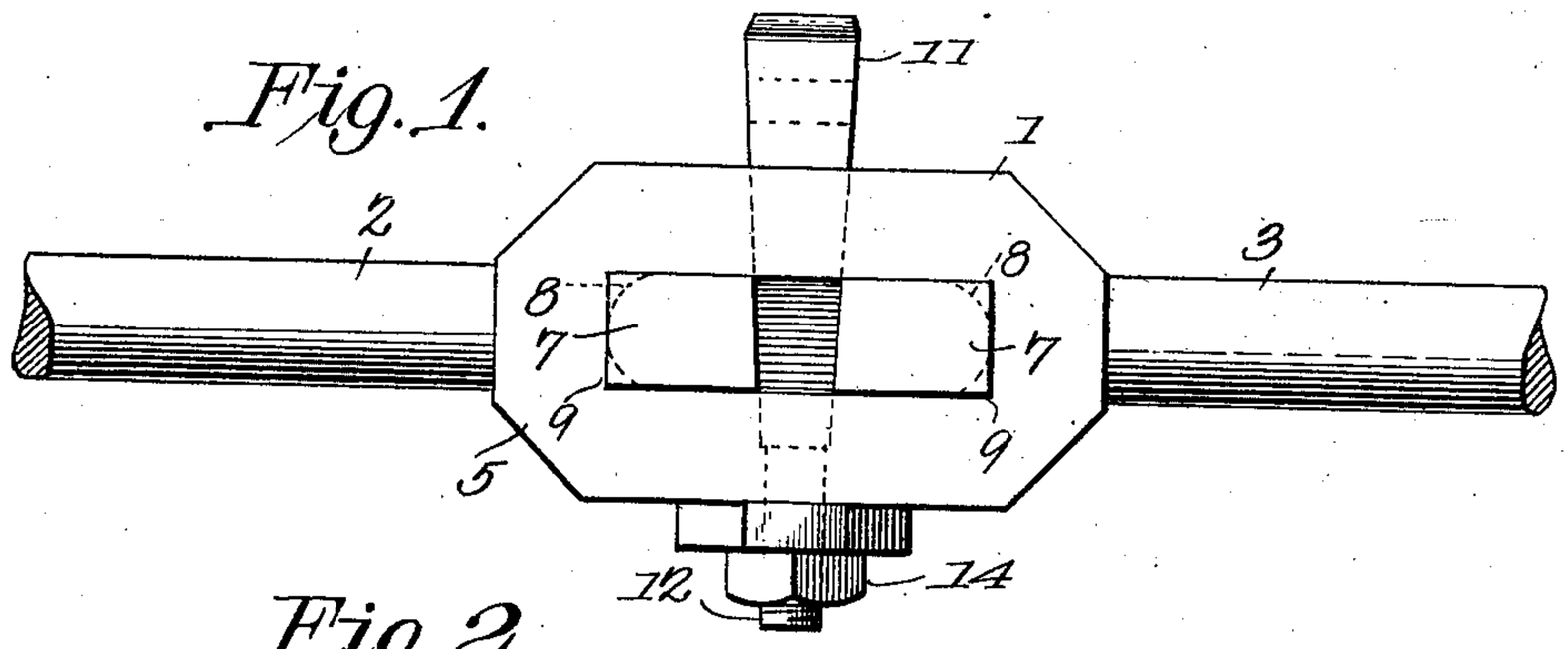


Fig. 2.

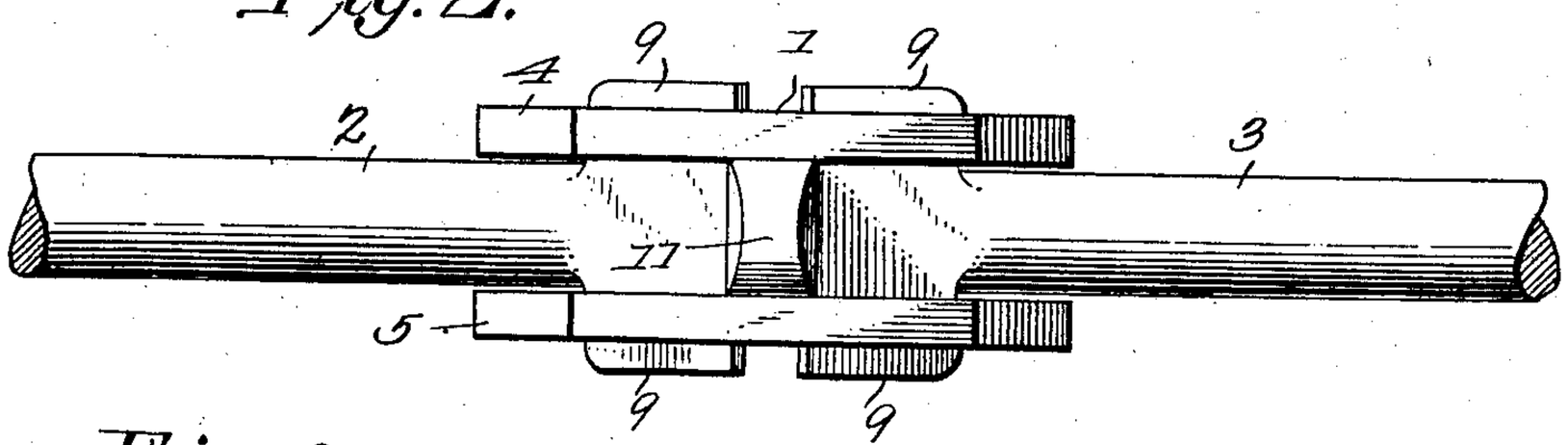


Fig. 6.

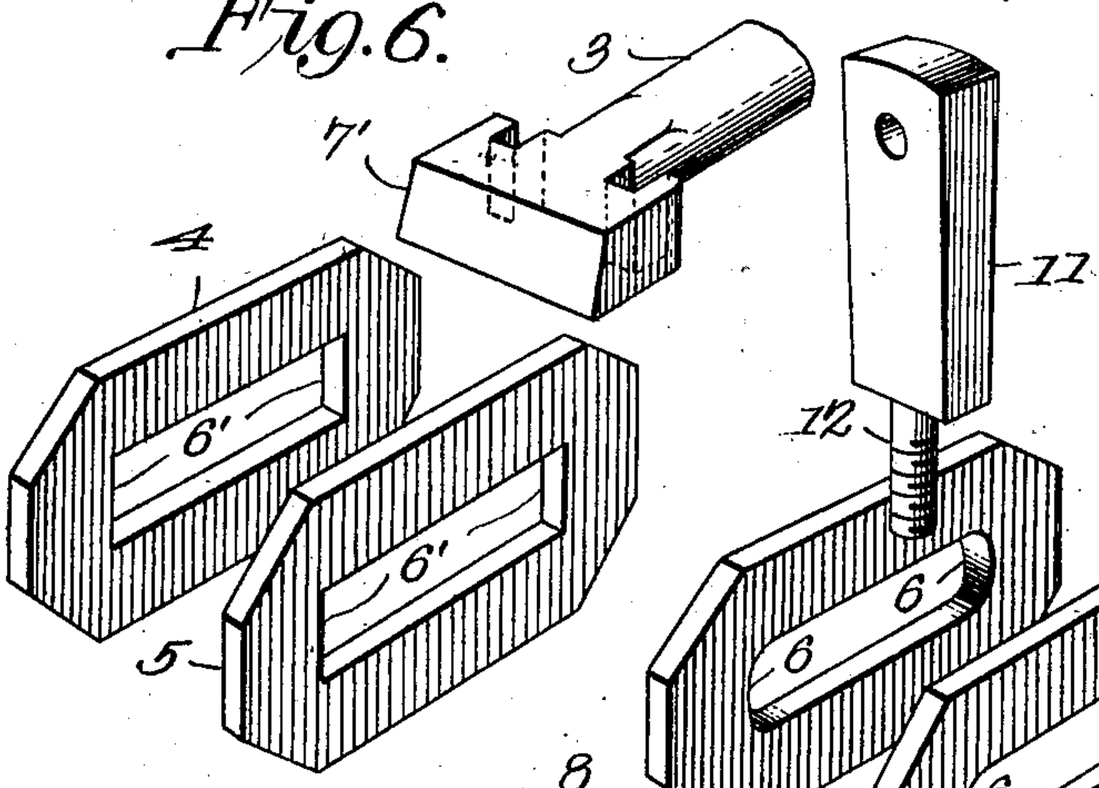


Fig. 3.

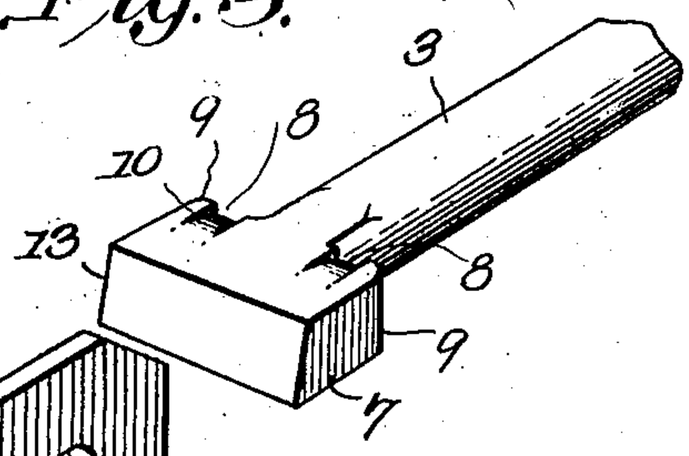


Fig. 4.

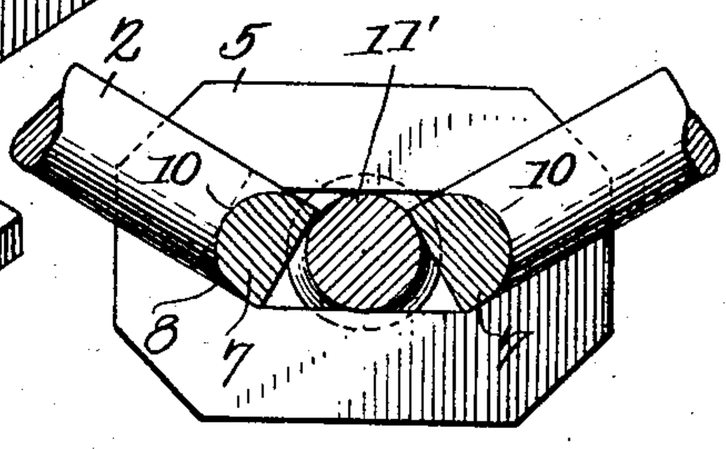
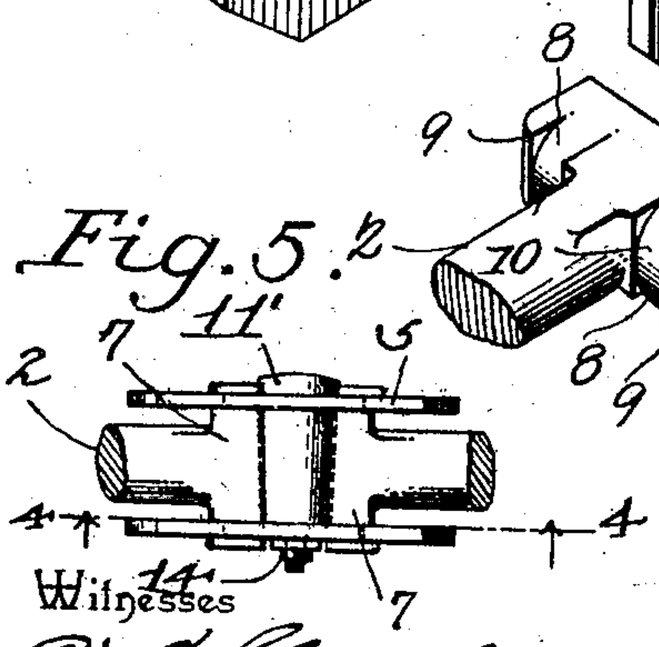


Fig. 5.



Witnesses

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No. 763,080. Patented June 21, 1904.

UNITED STATES PATENT OFFICE.

JACOB TAYLOR, OF PRAIRIE DEPOT, OHIO.

ROD-COUPLING.

SPECIFICATION forming part of Letters Patent No. 763,080, dated June 21, 1904.

Application filed February 6, 1904. Serial No. 192,373. (No model.)

To all whom it may concern:

Be it known that I, JACOB TAYLOR, a citizen of the United States, residing at Prairie Depot, in the county of Wood and State of Ohio, have invented a new and useful Rod-Coupling, of which the following is a specification.

This invention relates to an improved rod or shaft coupling particularly designed for connecting the individual operating-shafts in a group of pumping-machines, and has for its object to provide a simple, inexpensive, and efficient device of this character by means of which the several sections of shafting may be quickly connected to or disconnected from the central power-station.

A further object of the invention is to provide the adjacent ends of the rod or shaft with laterally-extending heads adapted to engage a pair of connecting-links and to provide means for locking the heads in engagement with the links.

A further object is to provide means whereby the rod-sections may be adjusted and securely clamped at any desired angle with relation to each other and to form the heads with retaining-flanges adapted to engage the links when the parts are coupled.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

In the accompanying drawings, Figure 1 is a side elevation of a section of shafting provided with my improved coupling. Fig. 2 is a top plan view of the same. Fig. 3 is a detail perspective view of the several parts detached. Fig. 4 is a sectional side elevation taken on the line 4 4 of Fig. 5, illustrating the angular adjustment of the adjacent shaft-sections. Fig. 5 is a top plan view showing the wedge inserted transversely through the links, and Fig. 6 is a perspective view showing a modified form of the invention.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates the coupling designed for connecting the sections of rods 2 and 3 in a line of shafting extending from the central power-station to the individual pumping-machines.

The coupling consists of a pair of links 4 and 5 of any desired shape or configuration and formed of metal or other suitable material, being preferably die-struck and having their inner end walls curved, as shown at 6. The adjacent ends of the rods 2 and 3 are formed with laterally-extending heads 7, provided with link-receiving recesses 8, defining terminal flanges 9, said flanges being adapted to bear against the outer face of the links 4 and 5 when the parts are assembled and prevent lateral displacement of the same.

The rear walls of the heads 7 are preferably curved, as shown at 10, to conform to the curvature of the links, so as to allow the heads to turn freely in said links and permit the rods to be adjusted at any angle with relation to each other, as clearly shown in Fig. 4 of the drawings. A tapering key or wedge 11, provided with a reduced threaded extension 12, bears against the correspondingly tapering or inclined faces 13 of the heads 7, forcing said heads in engagement with the links when the wedge is driven to its seat, a nut 14, engaging the threaded extension 12, serving to lock the wedge in position between said links.

In assembling the coupling the heads 7 are introduced in the links 4 and 5 with the flanges 9 bearing against the outer faces thereof, as clearly shown in Fig. 1 of the drawings. The key or wedge is then driven to its seat with a hammer or other tool, forcing the heads in contact with the end walls of the links, and said wedge or key locked in position by means of the nut 14. The adjacent sections of rod may be adjusted at any angle with relation to each other by turning the heads 7 within the links to the desired position and driving a key 11′ transversely through said links and locking the same in the manner stated.

In Fig. 5 I have illustrated a modified form of coupling in which the inner end walls of the link are squared, as shown at 6′, and adapted

to receive the correspondingly-squared heads 7′ of the rods 2 and 3.

From the foregoing description it will be seen that I have provided an extremely simple and inexpensive coupling, the relative disposition of the several parts being such as to permit the sections of rod to be quickly connected or disconnected and adjusted at any angle with relation to each other.

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

1. A rod-coupling comprising, a pair of links, rod-terminals having link-engaging heads, and means for locking the heads in engagement with the links.

2. A rod-coupling comprising, a pair of links, rod-terminals having link-engaging heads, and a wedge for locking the heads in engagement with the links.

3. A rod-coupling comprising, a pair of links, rod-terminals having T-shaped heads adapted to engage the links, and means for locking the heads in engagement with the links.

4. A rod-coupling comprising, a pair of links, rod-terminals provided with link-engaging heads having their adjacent faces inclined or beveled, and a wedge adapted to engage the inclined faces of the heads for locking the heads in engagement with the links.

5. A rod-coupling comprising, a pair of links, rod-terminals provided with flanged heads adapted to engage the links, and means for locking the heads in engagement with the links.

6. A rod-coupling comprising, a pair of links, rod-terminals having laterally-extending heads provided with link-engaging recesses, and means for locking the heads in engagement with the links.

7. A rod-coupling comprising, a pair of links, rod-terminals provided with laterally-extending heads having rounded rear portions adapted to engage the links, and means for locking the heads in engagement with the links.

8. A rod-coupling comprising, a pair of links, rod-terminals provided with T-shaped heads having flanged end portions adapted to engage the outer faces of the links, and means for locking the heads in engagement with the links.

9. A rod-coupling comprising, a pair of links, rod-terminals having link-engaging heads, a key, and means for locking the key in engagement with the heads.

10. A rod-coupling comprising, a pair of links, rod-terminals having link-engaging heads provided with inclined faces, a wedge engaging the inclined faces of the heads, and means for locking the wedge in position.

11. A rod-coupling comprising, a pair of links, rod-terminals having laterally-extending heads adjustable in said links, and means for locking the heads in engagement with the links.

12. A rod-coupling comprising, a pair of links, rod-sections provided with terminal heads adjustable in said links, and means for locking the heads in engagement with the links.

13. A rod-coupling comprising, a pair of links, rod-sections provided with laterally-extending heads having terminal flanges adapted to engage the links, and means for locking the heads in engagement with the links.

14. A rod-coupling comprising, a pair of links, rod-sections having laterally-extended inclined heads provided with link-receiving recesses, a wedge or key provided with a threaded extension adapted to engage the inclined heads, and a nut engaging the threaded extension for locking the heads in engagement with the links.

15. A rod-coupling comprising, a pair of links having curved inner end walls, rod-sections provided with correspondingly-curved heads adapted to engage the links, and means for locking the heads in engagement with the links.

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

JACOB TAYLOR.

Witnesses:

CHAS. S. STOREY,

GEORGE L. YEAGER.