A. S. FRIEZE.

COUPLING.

APPLICATION FILED NOV. 29, 1916.

1,230,146.

Patented June 19, 1917.

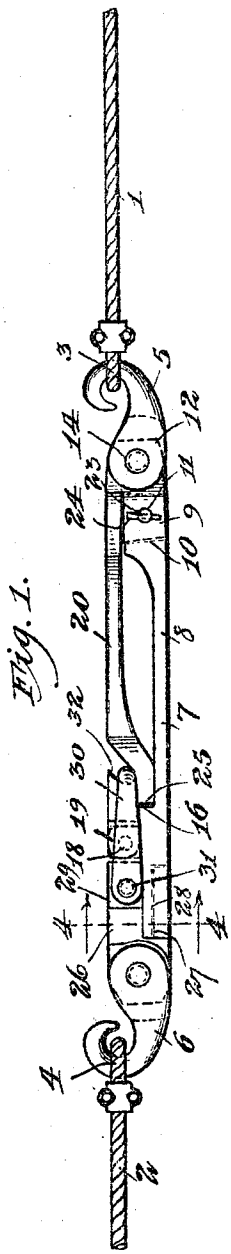


Fig. 1.

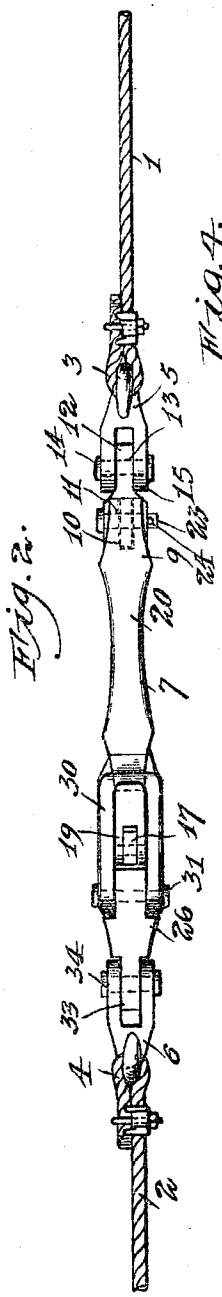


Fig. 2.

Fig. 4.

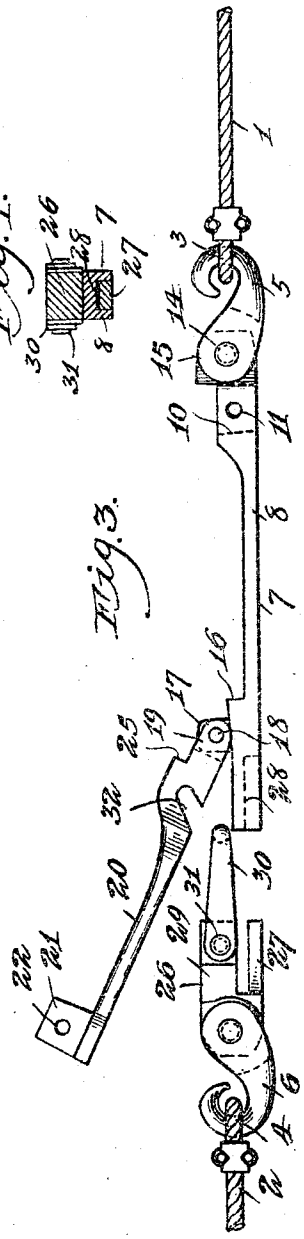


Fig. 3.

Witnesses.

D. S. Mann.

Inventor:

Alfred S. Frieze

Frank L. Belknap

By Atty

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ALFRED S. FRIEZE, OF FOSSIL, OREGON.

COUPLING.

1,230,146. Specification of Letters Patent. Patented June 19, 1917.

Application filed November 29, 1916. Serial No. 134,022.

To all whom it may concern:

Be it known that I, ALFRED S. FRIEZE, a citizen of the United States, residing in the town of Fossil, county of Wheeler, and State of Oregon, have invented certain new and useful Improvements in Couplings, of which the following is a specification.

This invention relates to improvements in couplers and refers more particularly to a device adapted for use in the cable lines of logging camps and the like although the coupling may be used wherever found serviceable.

Among the salient objects of the invention are to provide a construction which can be readily inserted in the line and quickly locked in position; to provide a construction in which the device can be quickly uncoupled without the necessity of slackening the line, thus avoiding delays and saving time; to provide a construction consisting of comparatively few parts, which is economical of manufacture and reliable in operation and in general to provide an improved construction of the character referred to.

In the drawings:

Figure 1 is a side elevation of my coupling shown in operative position.

Fig. 2 is a top plan view of the same.

Fig. 3 is a view similar to Fig. 1, but showing the device in uncoupled position.

Fig. 4 is a cross sectional view taken on lines 4—4 of Fig. 1, and looking in the direction of the arrows.

In the drawings, 1 and 2 designate the cables, the looped ends 3 and 4 of which engage the hooks 5 and 6 of the coupling designated as a whole 7. The hooks may take the form of clevises or the like if desired. The coupling as a whole comprises a main bar 8, one end of which is provided with an enlarged head portion 9, recessed as shown at 10 for purposes hereinafter described. The sides of the recess are bored as shown at 11. Beyond the recess the bar is provided with a lug 12, also provided with a horizontally extending member 13. The hook 5 is pivotally connected to the lug by means of a pivot pin 14, the hook having forked ears 15, which engage the pin.

Referring now to the other end of the bar, near its end it is provided with a shoulder portion 16, which carries an upstanding lug 17, to which is pivotally secured by means of pin 18, the forked end 19 of a latch bar or lever 20. The free end of this lever carries a tongue 21, which fits into recess 10 of the main bar. The tongue is apertured as shown at 22 to receive the locking pin 23, which in turn is apertured to receive a cotter pin 24. At its upper end, the lever is provided at its end side with a shoulder 25, which fits against the shoulder 16 when the device is in coupled position.

This lever is adapted to actuate the hook 6 and force it into operative engagement with the main bar. To this end a forked slide block 26 has sliding engagement with the main bar. The lower end 27 of the block slides in a groove 28 formed in the lower face of the bar 8, while the upper end 29 of the block slides over the upper face of the bar and is provided with a link 30, pivoted by means of pin 31 to said upper end 29. This link is adapted to have hooked engagement with a recess or groove 32 formed in the upper face of the latch lever. This groove, it will be noted, is inclined downwardly toward the link so as to facilitate the leverage action. The hook 6 is pivoted to the end 33 of the block 26 by means of pivot pin 34. The device is operated in the following manner:

The cable 2 is first secured around the log (not shown) to be hauled in and the head then slid onto the main bar in a manner heretofore described and the link 30 hooked onto the grooved portion of the lever. The latter is then swung into closed position which puts the head into secure engagement with the main bar. The tongue of the lever is then locked to the rest of the main bar and the device is in coupled position. The device may be uncoupled by simply unlocking the lever and swinging the latter upwardly. Further pull on the cable 1 will detach the main bar from the head portion, whereupon the cable 2 can be removed from the log.

I claim as my invention:

1. In a coupling, the combination with a main bar, of a connecting member secured to one end thereof, a second connecting member detachably secured to the other end of the bar and having slidable engagement therewith, unlocking lever pivoted to the bar and adapted to have detachable locking engagement therewith and operative connections between the locking lever

and slidable connecting member whereby the latter can be securely engaged with the main bar.

2. In a coupling, the combination with a main bar, of a connecting member secured to one end of the bar, a head having slidable engagement with the other end of the bar and completely detachable therefrom, a connecting member secured to the head, a lever pivotally secured to the bar and adapted to have detachable locking engagement with the latter and a link pivotally secured to the head and adapted to detachably engage the lever whereby the head can be drawn into fixed engagement with the bar.

3. In a coupling, the combination with a bar member having a connecting portion at one end thereof, of a head member having a connecting portion and having sliding engagement with the bar, said members being locked against pivotal movement relative to each other when in engagement and an unlocking lever pivoted to one member and detachably engaging the other.

4. In a coupling, the combination with a bar member having a connecting part, of a head member having a connecting part, one member having a bracket portion having sliding engagement with the adjacent end of the other member but detachable therefrom, an unlocking lever carried by one member and having a hook portion and a link carried by the other member and detachably engaging the link from the parts that are not locked in position whereby the swinging of the lever on its pivot unlocks the members.

ALFRED S. FRIEZE.

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