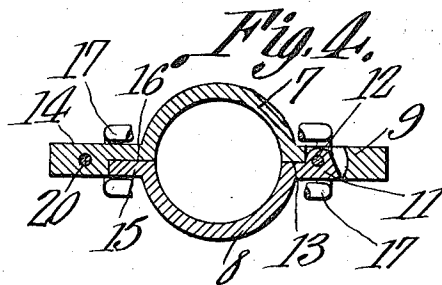
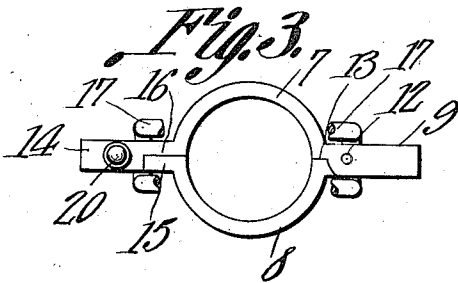
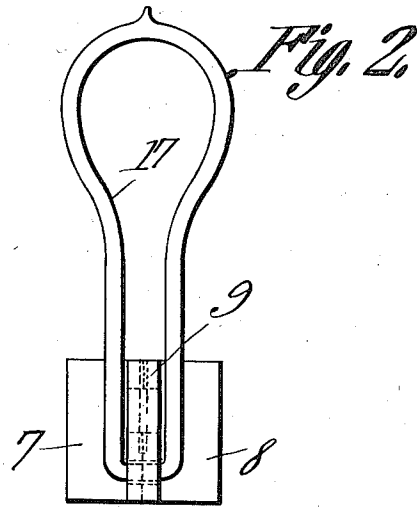
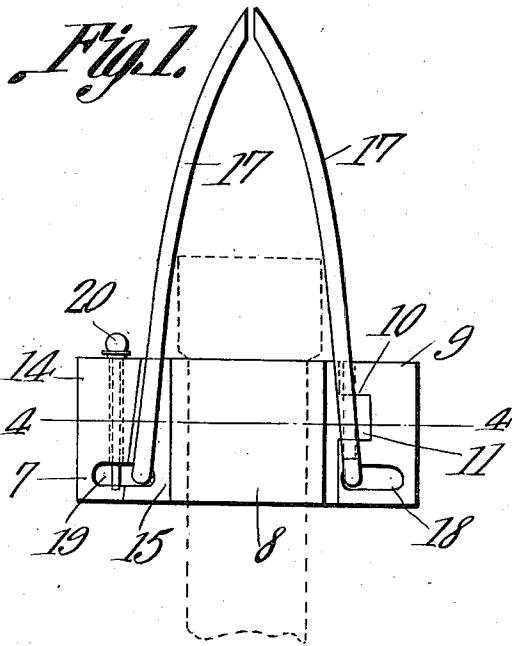


E. ATHEY.
CLAMP.

APPLICATION FILED MAY 7, 1910.

976,334.

Patented Nov. 22, 1910.



Witnesses

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UNITED STATES PATENT OFFICE.

EARL ATHEY, OF UVALDE, TEXAS.

CLAMP.

976,334.

Specification of Letters Patent.

Patented Nov. 22, 1910.

Application filed May 7, 1910. Serial No. 559,930.

To all whom it may concern:

Be it known that I, EARL ATHEY, a citizen of the United States, residing at Uvalde, in the county of Uvalde and State of Texas, have invented a new and useful Clamp, of which the following is a specification.

This invention relates to improvements in devices employed for connecting a hoisting line to a well casing or tubing which is to be raised or lowered in the well.

It is the object of the invention to provide a device of this kind which is strong and easily handled, it being constructed so that it can be readily applied to or removed from the casing, without removing it from the bails to which the hoisting line is connected.

With these objects in view, the invention consists in a novel form of clamp constructed and operating as hereinafter specified.

The invention is illustrated in the accompanying drawing forming a part of this specification, in which—

Figures 1 and 2 are elevations of the clamp taken at right angles. Fig. 3 is a plan view of the clamp with parts broken away. Fig. 4 is a horizontal section on the line 4—4 of Fig. 1.

Referring to the drawing, it will be seen that the clamp comprises two jaw members 7 and 8, respectively, each of which is semi-circular, so that when they are closed around the casing or tubing to be elevated, the latter is encircled by the two jaw members. The clamp will be applied to the casing, or tubing so that its upper end engages the shoulder on the outside thereof at its upper end, as shown in Fig. 1, whereby it is prevented from slipping down in the clamp, and is thus securely held.

At one end of the jaw member 7 is an outstanding ear 9 having an aperture 10 into which extends a hinge knuckle 11 formed on the corresponding end of the jaw member 8. A pin 12 passing into the ear 9, and through the knuckle 11, provides a hinge connection between the two jaw members. The ear 9 and the knuckle 11 are cut away adjacent to the inner surface of the jaw members to form two shoulders 13 which come together when the jaw members are closed.

On that end of the jaw member 7 opposite the end from which the ear 9 extends, is an outstanding ear 14, and on the corresponding end of the jaw member 8 is an outstanding ear 15. That side of the ear 14 which

is opposite the ear 15 is formed with a recess 16 in which the ear 15 fits when the jaw members are closed. The contiguous vertical edge of the ear 15 and the recess 16 are inclined as shown in Fig. 1.

The two bails to which the hoisting line is adapted to be connected, are shown at 17. These bails are connected to the clamp on opposite sides thereof, one of the bails passing through a slot 18 in the ear 9, and the other bail passing through a slot 19 in the ear 14, a continuation of the last mentioned slot being had in the ear 15 by a registering recess in its outer edge. The two slots extend transversely of the pivotal axis of the jaws and the bails are movable therein. In the ear 14 is a vertical opening into which is adapted to be inserted a pin 20, the length of the opening and the pin being such, and the opening being so located, that the pin, when inserted into the opening, extends across the slot 19. The purpose of this will be presently made clear.

The length and location of the slots 18 and 19 are such that when the bails 17 are at the inner ends thereof, one of said bails extends across the hinge joint, one side of the bail being located on one side of the ear 9, and the other side of the bail extending across the outer surface of the hinge knuckle 11. One side of the other bail extends along one side of the ear 14, and the other side of the bail extends along side the ear 15. By locating the two bails as herein described, said bails also serve to lock the jaws in closed position around the casing or tubing. It will be evident from an inspection of Figs. 3 and 4 that the jaw members may be swung open by moving the lower ends of the bails outwardly in the respective slots until they clear the hinge joint and the meeting ends of the ears 14 and 15. The pin 20 is so located in the slot 19 that it holds the bail passing through said slot in locking position. Upon removing the pin, the bail can be slipped outwardly in the slot so as to clear the meeting ends of the ears 14 and 15, and after the other bail is slipped outwardly in the slot 18, the jaw members may be opened to release the casing or tubing. It will be noted that the release is effected without removing the bails from the hoisting device, which is a distinct advantage where the casing or tubing has to be taken off up in the derrick

as is often the case in pulling and putting in long strings of casings in deep oil and water wells. The jaw members may also be opened by swinging the bails outwardly at the top until they assume a horizontal position.

The device herein described is strong and durable, and easily handled, it being readily applied to or removed from the casing or tubing, and when applied thereto and locked by the bails as described, it will be securely held in place, without danger of becoming unlocked and thus dropping the parts to be elevated or lowered.

15. What is claimed is:

1. A device of the character described comprising a pair of pivotally connected jaws, the free end of one of said jaws having a recess into which the free end of the other jaw extends when said jaws are in closed position, and said first mentioned free end having a slot, and the other free end having a recess registering with the slot, bails connected to opposite sides of the jaws, one of said bails extending through the aforesaid slot, and being movable to enter the recess, and a pin passing through the slot on one

side of the bail, for locking the same in the recess.

2. A device of the character described comprising a pair of pivotally connected jaws, one of said jaws having a slot extending across the axis of the pivotal connection, and bails connected to opposite sides of the jaws, one of said bails being mounted in the aforesaid slot, and movable therein to extend across the joint between the jaws.

3. A device of the character described, comprising a pair of pivotally connected jaws, and bails connected to opposite sides thereof, the free ends of the jaws having a slot crossing the joint therebetween, and said slot extending transversely with respect to the pivotal axis of the jaws, one of the bails being mounted in the slot, and movable therein to extend across the aforesaid joint.

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

EARL ATHEY.

Witnesses:

G. D. ATHEY,
THEODORE SCHREIBER.