

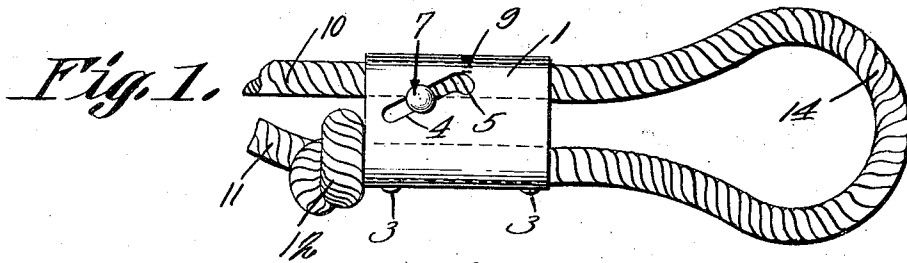
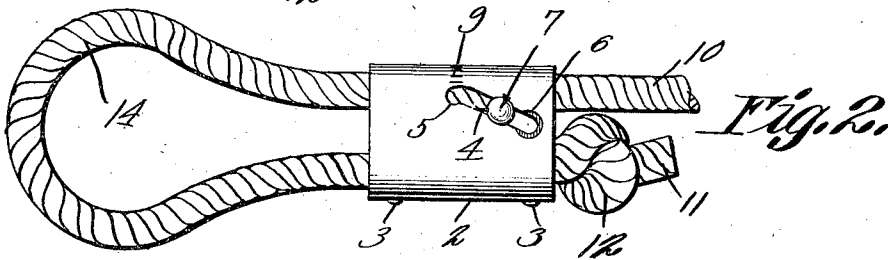
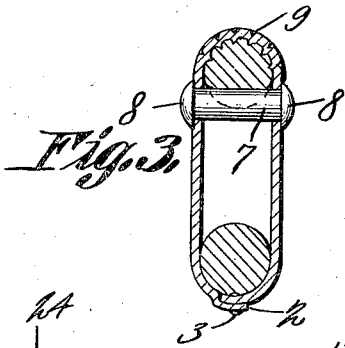
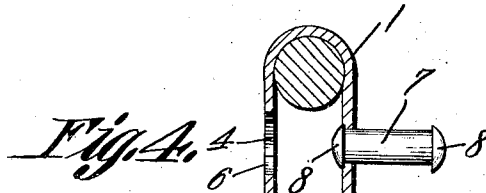
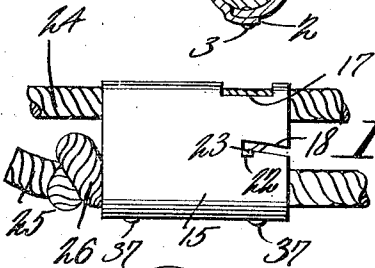
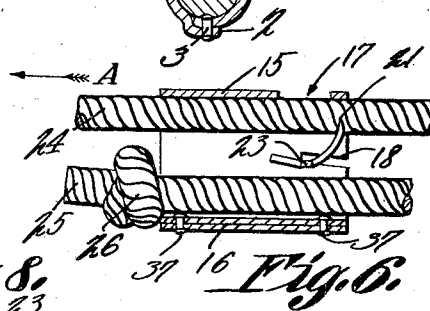
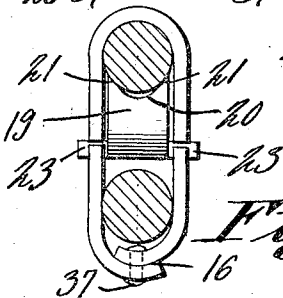
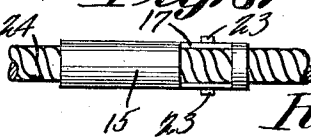
Oct. 16, 1923.

R. E. JORDAN, JR

1,471,034

ROPE CLAMP

Filed Aug. 5, 1921



Inventor,
R. E. Jordan, Jr.

By *Ca Snow & Co.*
Attorney

UNITED STATES PATENT OFFICE.

ROBERT ED JORDAN, JR., OF HALLS, TENNESSEE.

ROPE CLAMP.

Application filed August 5, 1921. Serial No. 490,002.

To all whom it may concern:

Be it known that I, ROBERT ED JORDAN, Jr., a citizen of the United States, residing at Halls, in the county of Lauderdale and State of Tennessee, have invented a new and useful Rope Clamp, of which the following is a specification.

It is the object of this invention to provide a simple means whereby a loop may be held at a predetermined length in a plow line or other flexible element.

In the accompanying drawings:—

Figure 1 shows in side elevation, a device constructed in accordance with the invention; Figure 2 is an elevation showing the opposite side of the device from that depicted in Figure 1; Figure 3 is a transverse section; Figure 4 is a transverse section wherein the latch or retainer has been retracted; Figure 5 is an elevation showing a modified form of the invention; Figure 6 is a longitudinal section of the device depicted in Figure 5; Figure 7 is an end elevation; and Figure 8 is a top plan.

As shown in Figure 1 of the drawings, the device includes a tubular body 1 which, if desired, may be made of a single strip of metal, having overlapped ends 2 connected by securing elements 3. The tubular body 1 is struck inwardly, to form longitudinal ribs 9. The sides of the body 1 are provided with inclined cam slots 4 which slant outwardly in a direction oblique to one end of the body and to one longitudinal edge thereof of those ends of the cam slots which are adjacent to said longitudinal edge terminating in seats 5 which extend inwardly toward the axis of the body. There is an opening 6 in the body 1, at that end of one cam slot which is adjacent to one end of the body, the opening 6 being considerably larger than the corresponding end of the opposite cam slot, for a purpose which will be explained hereinafter. The numeral 7 denotes a latch or retainer, in the form of a pin, mounted to slide in the cam slots 4 and provided at its ends with heads 8.

The numeral 10 designates one end of a flexible element, the other end of the flexible element being denoted by the numeral 11, and being provided with an enlargement or knot 12. The ends 10 and 11 of the flexible element extend through the tubular body 1, the flexible element being fashioned into a

loop 14. The enlargement or knot 12 engages one end of the body 1, as shown in Figure 1. The heads 8 on the latch pin 7 prevent the latch pin from moving endwise out of the cam slots 4, when the pin is located in the cam slots or in the seats 5. By pulling on the loop 14, the end 10 of the flexible element may be advanced, thereby causing the latch pin 7 to ride along the cam slots 4, the latch pin 7 ultimately arriving in the seats 5 and 6, and being held securely but releasably therein, so that the latch pin cannot slide backwardly down the cam slots 4. When the latch pin 7 is in the position above described, and shown in Figure 3, the end 10 of the flexible element is bound securely against the body 1, the ribs 9 aiding in holding the said end of the flexible element.

It has been pointed out hereinbefore that the opening 6 is of larger diameter than the width of the opposite cam slot and it may be observed at this point that the opening 6 is large enough to permit the passage of one of the heads 8 of the latch pin 7, the said opposite cam slot being too narrow to permit the passage of the head. Owing to the construction last above described, the latch pin 7 may be pulled laterally into the position shown in Figure 4 of the drawings, thereby facilitating the insertion of the loop 14 through the body 1, the pin remaining mounted in the body.

Passing to the form shown in Figure 5, there is provided a tubular body 15 which may be made out of a strip of metal having overlapped ends 16 connected by securing elements 17. In the sides of the body 15, cam slots 18 are formed, there being seats 22 at the inner ends of the cam slots, the cam slots slanting as hereinbefore described, and the seats projecting toward the axis of the body.

A dog or retainer 19, which may have some resiliency, is located within the body 15 and is provided in one end with a notch 20 defining gripping points 21, the dog having lateral projections 23 received in the seats 22. One end of the flexible element is shown at 24, and the other end of the flexible element is shown at 25, the end 25 having an enlargement 26 engaging one end of the body 15, the flexible element being fashioned into a loop, as before.

The loop of the flexible element is thrust through the body 15 and the dog 19 is mounted in place, the projections 23 of the dog being inserted into the seats 22, by way
5 of the slots 18. When the part 24 of the flexible element is drawn in the direction of the arrow A in Figure 6, obviously, the points 21 of the dog will engage in the said end of the flexible element and hold the
10 same, the loop being held at a predetermined size. The function of the opening 17 is to enhance the hold of the body 15 on the end 24 of the flexible element. Should the operator desire to disengage the dog 19 from
15 the end 24 of the flexible element, this may be done by pulling the end 24 of the flexible element in a direction opposite to that indicated by the arrow A in Figure 6, the hold of the dog being loosened, and the dog,
20 subsequently, being manipulated by the operator, through the instrumentality of the projections 23 which, as shown in Figure 7, project for that purpose. The dog 19 is so inclined with respect to the end 24 of the
25 flexible element, that the end 24 will slide freely across the dog, when the end 24 is pulled in a direction opposite to that indicated by the arrow A, whereas, when the end 24 is pulled in an opposite direction, the
30 dog will grip the said end.

What is claimed is:—

In a device of the class described, a tubular body provided in its sides with cam slots which slant outwardly in a direction oblique to one end of the body and to one longitudinal
35 edge of the body, those ends of the cam slots which are adjacent to said longitudinal edge of the body being provided with seats which extend toward the axis of the body, transversely of the axis of the body, there being
40 an opening at that end of one cam slot which is adjacent to said end of the body, and a retainer mounted to slide in the cam slots and to enter the seats, the retainer being
45 provided with heads which are large enough to prevent the retainer from sliding end-wise out of the seats when the retainer is located in the seats, the opening being of sufficient
50 size to permit one head of the retainer to pass therethrough when the retainer is moved end-wise, the said head being of sufficient size that it cannot pass through the other cam slot when the retainer is moved
end-wise as aforesaid.

In testimony that I claim the foregoing as
55 my own, I have hereto affixed my signature in the presence of a witness.

ROBERT ED JORDAN, JR.

Witness:

FRED R. HURT.