

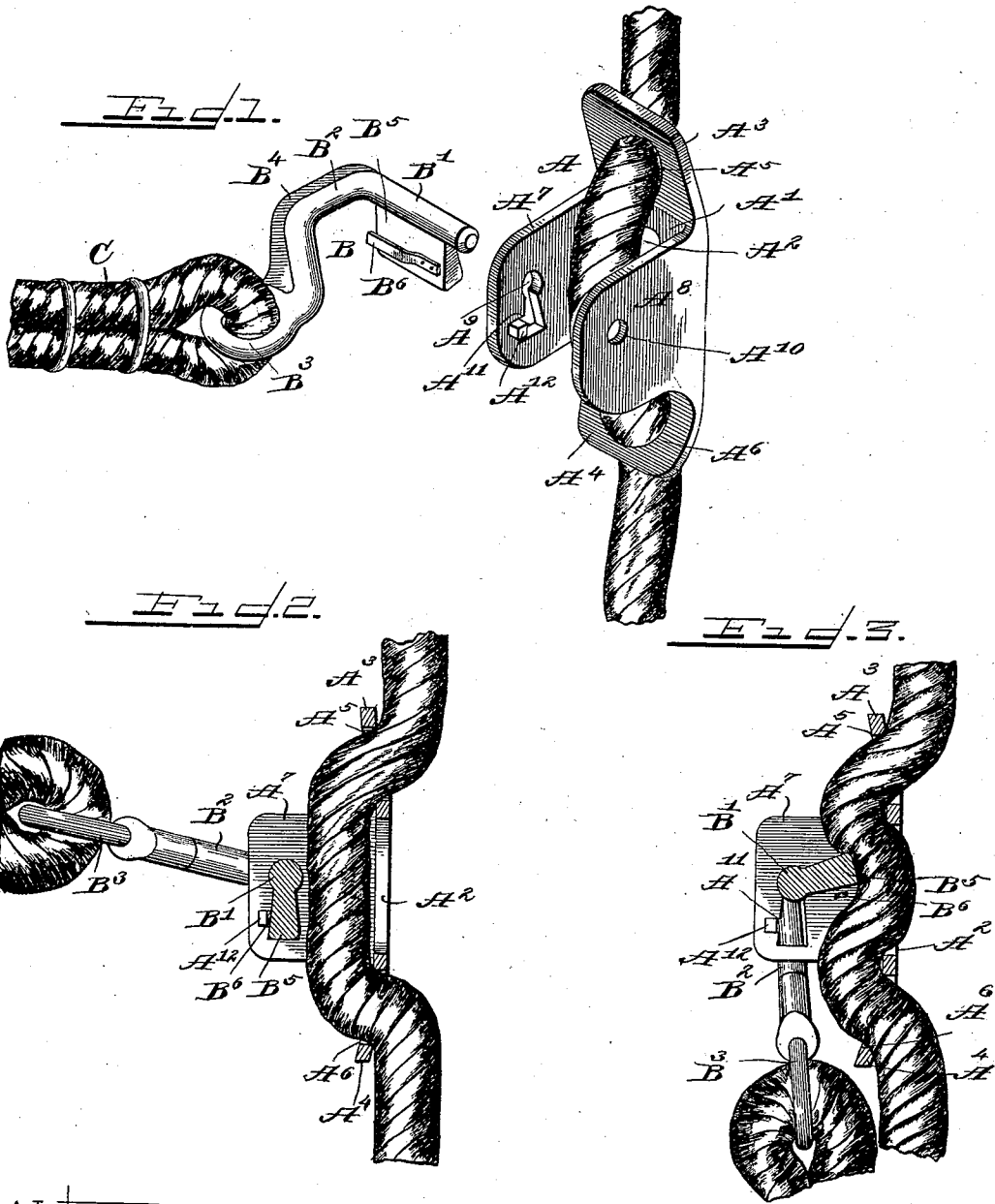
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PATENTED MAR. 17, 1903.

F. C. CROWE.
ROPE CLAMP.

APPLICATION FILED NOV. 25, 1901.

NO MODEL.



WITNESSES.

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ROPE-CLAMP.

SPECIFICATION forming part of Letters Patent No. 722,949, dated March 17, 1903.

Application filed November 25, 1901. Serial No. 83,581. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK C. CROWE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Rope-Clamps, of which the following is a specification.

The object of this invention is the production of a device for securely gripping a rope. It is adapted to be used in rope halters, in suspending hammocks, and in many other connections.

In the accompanying drawings, Figure 1 is a perspective view of this improved rope-clamp in position upon a rope, the key or clamping member being shown separate from the body portion of the clamp. Fig. 2 is a longitudinal section through the body portion of the clamp and the locking member, showing the latter within the body portion, but not turned to its clamping position. Fig. 3 is a similar view showing the position of the parts when the rope is clamped by the turning of the key or clamping member into its clamping position.

In the construction of this rope-clamp I provide a body portion A, comprising a straight side A', longitudinally perforated in the opening A². Continuing said straight side A' and at the ends of the latter are the two integral upwardly-inclined end portions A³ and A⁴, provided with perforations A⁵ and A⁶, respectively, through both of which openings the rope to be held is intended to pass. At the sides of the side portion A' are two forwardly-extending integral ears A⁷ and A⁸, the former being provided with a keyhole A⁹ and the latter with a coinciding circular opening A¹⁰. In one side of the keyhole I form a small notch A¹¹, and on the inner side of the ear A⁷ and adjacent to said notch I provide an integral stop-lug A¹².

B refers to a key or clamping member having a straight cylindrical stem portion B' and an angular shank portion B², provided with an eye B³ at its end. The shank portion is reinforced by an integral web B⁴, and the cylindrical portion B' is provided with an integral cam projection B⁵, extending substantially at right angles with the plane of the shank portion of the locking member B. A

flat spring B⁶ is secured to the side of said cam projection, the free end of said spring being adapted to engage with the stop-lug A¹² on the ear A⁷ of the body portion A.

C represents a rope, one end of which is passed through the loop B³ and secured therein in any suitable manner. The intermediate portion of said rope extends through the openings A⁵ and A⁶ of the body portion A. To adjust the position of the body portion of the clamp upon the rope, the latter may be slid through the openings A⁵ and A⁶ in the body portion by raising the part of the rope between said openings into a loop and pulling the slack from the loop to one side or the other of said body portion. To do this, the clamping member B is first removed from the body portion A. When the rope is in position in the body portion, as indicated in Fig. 1, the cylindrical portion B' and cam projection B⁵ of the locking member may be inserted into the body portion through the keyhole A⁹, the forward end of said cylindrical stem portion B' resting within the circular opening A¹⁰ in the ear A⁸. In inserting the locking member B through the keyhole the spring B⁶ is pressed closely against the side of the cam projection B⁵, and when said locking member is in position within the body portion A the free end of said spring pressing against the stop-lug A¹² tends to throw the cam projection B⁵ out of coincidence with the keyhole. The rope is clamped in position by turning the locking member B upon its cylindrical shank portion, throwing the cam projection B⁵ into contact with the rope C, deflecting said rope into the opening A² in the side portion A' of the body portion A. When the parts of the rope-clamp are in engagement with the rope C to clamp the latter, the cam projection B⁵ of the locking member B is thrown slightly "over its center," tending to prevent the accidental displacement of the locking member. The angle between the cam projection B⁵ and the shank B² of the locking member may be increased, if necessary, in order to increase the security of the clamp in its locked position. The spring B⁶ tends to hold the cam projection B⁵ away from the keyhole to prevent the locking member B from dropping out of its seat in the

body portion A. When it is desired to withdraw said locking member, the spring B⁶ is compressed against said projection B⁵ by turning the locking member B and the latter withdrawn from the body portion. In practice the friction existing between the rope C and the body portion A is sufficient to hold the rope without the engagement of the cam projection B⁵.

It is apparent that the retaining-spring B might be omitted and that various other changes might be made in the general form and arrangement of the several parts of this rope-clamp without departing from the spirit and scope of my invention, wherefore I do not intend to limit myself to the precise details herein set forth.

I claim as my invention—

1. In a rope-clamp, in combination, a plate having upwardly-inclined ends, each of said ends being provided with an opening through which a rope is intended to pass, the walls of said openings forming bearing-surfaces for said rope; and a locking member having a cam projection adapted to press said rope toward said plate at a point between said openings.

2. In a rope-clamp, in combination, an integral body portion having a side portion, the ends of said side portion inclining upward and being each provided with an opening, through which openings a rope is intended to pass, and an intermediate opening; and a locking member having a cam projection adapted to have a rotative engagement with said body portion, said member being adapted to press the rope into said intermediate opening.

3. In a rope-clamp, in combination, an integral body portion having a side portion provided with two openings into one of which and out of the other of which openings a rope is intended to pass, the walls of said openings forming bearing-surfaces for said rope, and an intermediate opening; and a locking member having a cam projection adapted to have a rotative engagement with said body portion and being adapted to press the rope into said intermediate opening to bind said rope against said bearing-surfaces.

4. In a rope-clamp, an integral body portion having a side portion provided with two openings into one of which and out of the other of which openings a rope is intended to pass, the walls of said openings forming bearing-surfaces for said rope, said body portion also

having two ears extending therefrom, one of which ears is provided with an opening; in combination with a locking member adapted to be inserted into the opening in said ear, said locking member having a cam projection adapted to deflect the rope at a point intermediate the openings in said side portion to bind said rope against the walls of the openings in said side portion.

5. In a rope-clamp, an integral body portion having a side portion provided with two openings into one of which and out of the other of which openings a rope is intended to pass, the walls of said openings forming bearing-surfaces for said rope, an intermediate opening, and two ears extending from said side portion, one of which ears is provided with an opening; in combination with a locking member adapted to be inserted into the opening in said ear and to be rotated with reference to said ears, said locking member having a cam projection adapted to deflect the rope into the intermediate opening in said side portion.

6. In a rope-clamp, in combination, a side portion having two openings through which a rope is intended to pass; two ears extending from said side portion, each provided with an opening; a locking member adapted to be inserted into the openings in said ears and to be rotated with reference to said ears; a cam projection on said locking member, adapted to deflect the rope at a point intermediate the openings in said side portion; and means for normally preventing the withdrawal of said locking member from said ears.

7. In a rope-clamp, in combination, a side portion having two openings through which a rope is intended to pass, and an intermediate opening; two ears extending from said body portion, each provided with an opening; a stop-lug on one of said ears near the opening in said ear; a locking member adapted to be inserted into the openings in said ears and to be rotated with reference to said ears; a cam projection on said locking member, adapted to deflect the rope into the intermediate opening in said side portion; and a spring on said cam projection, adapted to engage said stop-lug to prevent the withdrawal of said locking member from said ears.

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Witnesses:

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