

(Model.)

F. W. HAWES.

ROPE COUPLING AND SNAP HOOK.

No. 263,176.

Patented Aug. 22, 1882.

Fig. 1.

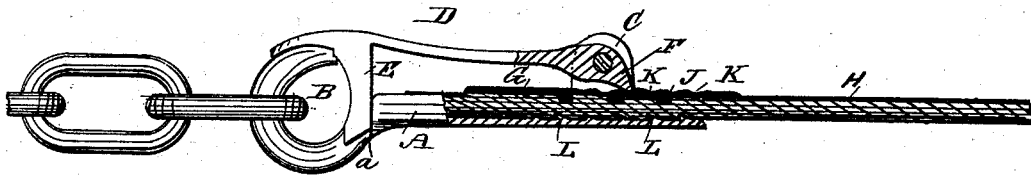


Fig. 2.

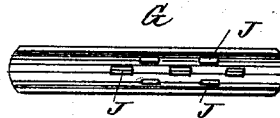


Fig. 3.

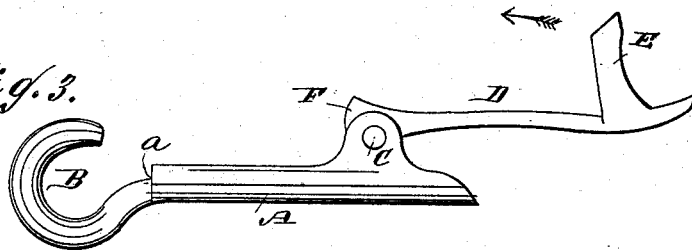


Fig. 4.

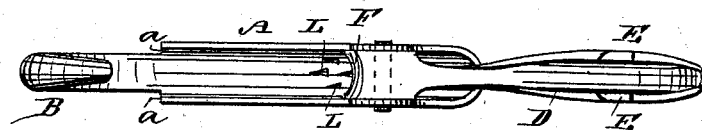
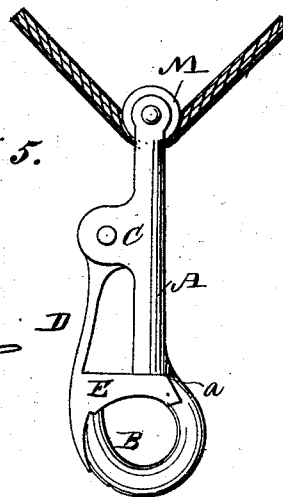


Fig. 5.



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FREDERICK W. HAWES, OF ALGONA, IOWA.

ROPE-COUPLING AND SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 263,176, dated August 22, 1882.

Application filed April 17, 1882. (Model.)

To all whom it may concern:

Be it known that I, FREDERICK W. HAWES, of Algona, in the county of Kossuth and State of Iowa, have invented a new and Improved Rope-Coupling and Snap-Hook, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved snap-hook which can readily be attached to ropes or round straps.

10 The invention consists in a hook provided with a grooved shank to which a latch is pivoted, which is provided with a cam-projection and with jaws fitting against the sides of the hook, into which grooved shank the rope or round strap is passed, and a grooved strip provided on its inner sides with studs is placed on it, which strip is pressed upon the rope by the cam-projection of the latch when the latch is swung down, and thus holds the rope to the shank. The jaws of the latch catch on the sides of the hook, and thus assist in holding the latch closed, as will be fully set forth hereinafter.

25 Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal elevation of my improved rope-coupling and snap-hook. Fig. 2 is a plan view of the inner side of the studded grooved strip for clamping the end of the rope on the snap-hook. Fig. 3 is a longitudinal elevation of the snap-hook, showing it opened. Fig. 4 is a plan view of the same. Fig. 5 is a longitudinal elevation of the snap-hook, showing it provided with a roller for suspending it from a breast-strap.

30 The shank A of the hook B is grooved longitudinally in its inner side, and is provided at its outer end with two lugs or ears, C, projecting from the grooved sides of the shank. Between these lugs or ears C a latch, D, is pivoted, the end of which is adapted to rest on the end of the hook, which latch is provided, near its free end, with two jaws, E, adapted to be passed over and against the sides of the hook, which is provided with two shoulders, a, against which the inner edges of the jaws E are adapted to rest. The latch D is provided at its pivoted end with a grooved cam-projection, F. A strip, G, which is grooved

so as to fit on the rope or round strap H, is placed in the groove of the shank A, and is provided on its inner surface with a series of studs, J, and on its outer surface with a series of flat transverse grooves or recesses, K. The grooved surface of the shank A is provided at the outer end—that is, at or near the jaws C—with a series of studs or teeth, L. The end of the shank of the snap-hook can be provided with a grooved roller, M, for suspending this snap-hook from a breast-band, as shown in Fig. 5.

The operation is as follows: The latch D is raised and the end of the rope or round strap H is passed into the groove of the shank A, and the grooved strip G is placed on the rope, with the studs J on the surface of the rope, the strip G being under the cam-projection F. By swinging the latch D over and upon the hook B, as indicated by the arrow, the cam-projection F will press on the strip G and will force the studs J and the teeth L into the rope, and the edge of the cam-projection will pass into or catch on one of the transverse grooves or recesses K on the outer surface of the strip G, and will thus hold the strip G and the rope firmly on the shank A, and will prevent withdrawing or pulling the rope from the shank. By swinging the latch D back in the inverse direction of the arrow the strip G will be released and the strip and the rope can be removed. As the cam-projection F locks the latch in position the snap cannot open by accident. The jaws E are made slightly yielding or elastic, and the spring-tension in these jaws holds them on the hook without the assistance of the cam-projection F, which is not used if the hook is provided with a roller, as shown in Fig. 5.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A rope-coupling and snap-hook made substantially as herein shown and described, with a grooved shank and a latch pivoted to the shank, and provided with a cam-projection at its lower end, as set forth.

2. The combination, with the hook B, provided with the grooved shank A, of the pivoted latch D, provided with a cam-projection, F, and the grooved strip G, substantially as herein shown and described, and for the purpose set forth.

3. The combination, with the hook B, provided with the grooved shank A, having teeth L, of the pivoted latch D, provided with cam-projection F, and the clamping-strip G, having projections J and transverse grooves K, substantially as herein shown and described, and for the purpose set forth.

4. The combination, with the hook B and shank A, of the pivoted latch D, provided with jaws E, fitting against the sides of the hook, substantially as herein shown and described, and for the purpose set forth.

5. The combination, with the hook B, provided with shoulders a, and the shank A, of the pivoted latch D, provided with jaws E,

fitting against the sides of the hook, substantially as herein shown and described, and for the purpose set forth.

6. The combination, with the hook B and the grooved and toothed shank A, of the pivoted latch D, provided with a cam-projection, F, and jaws E, and the strip G, provided with studs J and transverse grooves K, substantially as herein shown and described, and for the purpose set forth.

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Witnesses:

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