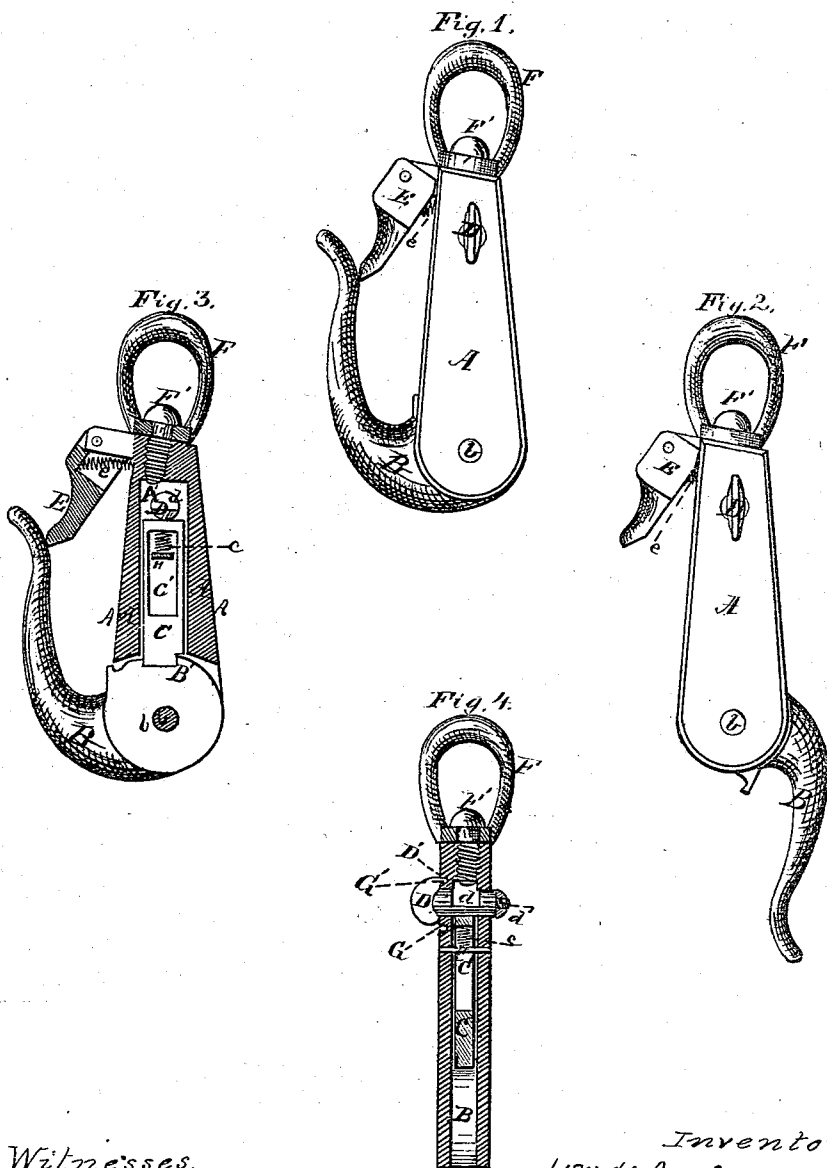


WILLIAM H. MILES.

Improvement in Detaching-Hook for Boats.

No. 125,900.

Patented April 23, 1872.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM H. MILES, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
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IMPROVEMENT IN DETACHING-HOOKS FOR BOATS.

Specification forming part of Letters Patent No. 125,900, dated April 23, 1872.

I, WILLIAM H. MILES, of the city and county of Philadelphia, State of Pennsylvania, have invented certain Improvements in Davit-Hook.

The nature of my invention relates to a davit-hook which may be self-releasing or not, at option.

Figure 1, davit-hook with tongue in position as when supporting boat; Fig. 2, davit-hook with tongue disengaged; Figs. 3 and 4, views of section at right angles with each other.

In all, A is body of hook. A' is chamber in A. B is tongue of hook. B' is lug in base of tongue B. b is pivot on which tongue turns. C is bolt inserted in chamber in A. C' is chamber in C to hold c. c is spring inserted in chamber C. D is thumb-screw on key for pressing C downward. D' is pin projecting from D. d is slot in key D. d' is nut used for holding D in place. E is catch attached to upper part of A. e is spring to press catch E against tongue B. F is ring attached to upper part of A by screw F'. F' is screw used for connecting ring F with A. G and G' are, respectively, lower and upper holes in A. H is seat on which lower end of spring C rests.

I make the body of the hook A substantially of the shape represented in the drawing, and with a chamber, A'. I then make a tongue, B, substantially as represented (the base of the tongue being nearly circular) with lug B', and also make the bolt C with chamber C'. In the upper end of the chamber is placed a spring, c. The bolt is then inserted in chamber A', and the seat H inserted through opening made for the purpose in A, and, passing through A' and C', is firmly fastened in its place. The tongue B is then placed in position and the pivot on which it turns is inserted. Through the opening in A, made for the purpose, the key D constructed as represented in the drawing is inserted, and the hook is ready for use. When the key is turned

so as that the slot d may be on the lower side, the spring C forces the bolt C upward and leaves the tongue to turn. The tongue is then placed in the position represented in Fig. 1, and the key turned half round, thus pressing the bolt against the face of the lug B', thus making it impossible for the tongue B to fall.

The hook being suspended from the davit by a rope passing through ring F, the boat may be suspended from it. Should it be desired to make the hook self-releasing while the boat is suspended, the key may be turned half around, and kept in that position by pressing pin D into holes G, so long as a weight is suspended from the hook the pressure of lug B' against bolt C prevents the latter from withdrawing. As soon as the weight is removed by the boat being buoyed up by the water, the pressure against the bolt is relieved, and the spring forces the bolt upward and the tongue B falls.

To prevent any accident from forcing the ring attached to the weight over the tongue B, I attach to the upper part of the body A the spring-catch E, which presses against the tongue B. The same result may be secured by making the inward curve of the tongue so great as to bring it against or near the body A.

What I claim as my invention, and desire to secure by Letters Patent, is—

The davit-hook composed of the body A with chamber A' and seat H, the tongue B with lug B', bolt C with chamber C' and spring c, key D with slot d, and pin D' with corresponding holes G and G', and the ring F and screw F', all combined substantially in the manner and for the purposes herein set forth.

W. H. MILES.

Witnesses:

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