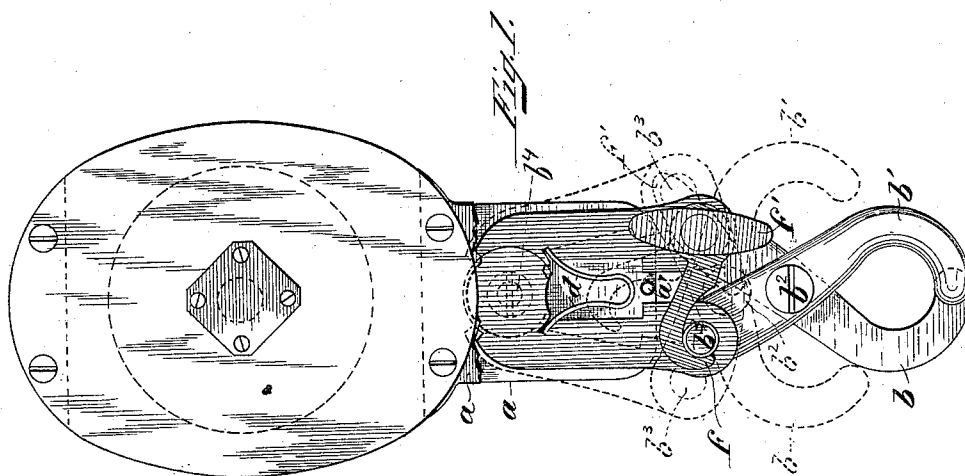
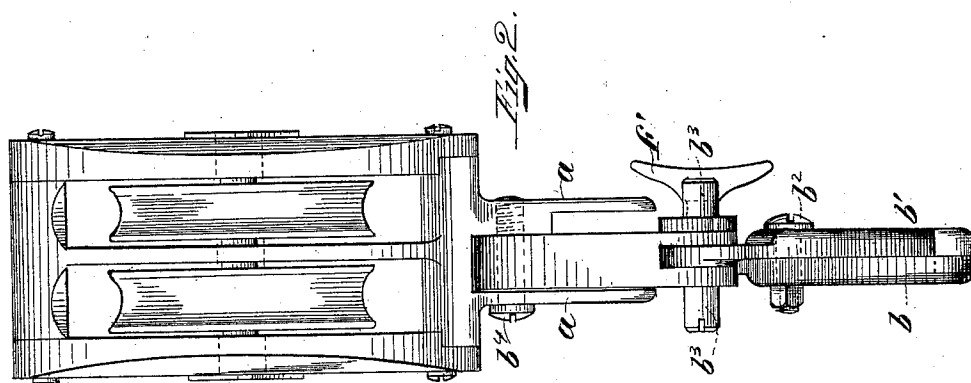


(No Model.)

F. S. HILTON.
FALL HOOK.

No. 472,353.

Patented Apr. 5, 1892.



Witnesses:
H. E. Remick, Jr.
John R. Snow.

Inventor:
Frederick S. Hilton
by his attorneys,
Maynard & Beach.

UNITED STATES PATENT OFFICE.

FREDERICK S. HILTON, OF SOUTH FRAMINGHAM, MASSACHUSETTS.

FALL-HOOK.

SPECIFICATION forming part of Letters Patent No. 472,353, dated April 5, 1892.

Application filed May 16, 1891. Serial No. 393,040. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK S. HILTON, of South Framingham, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Fall-Hooks, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is an edge view, and Fig. 2 a side view, of one form of fall-hook embodying my invention.

One object of my invention is to produce a davit-block hook, which instantly and certainly releases itself when relieved of weight, and although my invention is susceptible of embodiment in various other apparatus, I yet herein describe it in connection with a davit-block hook, as the principal use now contemplated is in boat-lowering apparatus.

My invention consists in the combination of any suitable support with a pair of jointed mousing-hooks pivoted to the support and a spring, which forces the hooks apart when they are relieved of weight.

In the drawings illustrating the preferred of several contemplated forms of fall-hooks, support *a* is a part of a pulley-block, and the hooks *b b'*, loosely pinned together in the usual way at *b²*, are jointed at *b³*, the butt-ends of the hooks being loosely pinned (in the construction shown) to support *a* at *b⁴*. A spring *d*, of any suitable form and construction, is suitably mounted, for example, between the upper portions of the hooks *b b'* to be compressed when the hooks are loaded, at which

time one hook forms a mousing for the other, as will be plain to all skilled in the art. When the hooks are relieved of weight—for instance, when the boat suspended on them reaches the water—spring *d* forces the hooks apart, so that the burden is instantly and certainly released. This is frequently a matter of vital importance in boat-lowering apparatus, as is well known.

It is highly desirable in many cases to provide devices embodying my invention with a lock for keeping the hooks moused, in order that the burden may not be accidentally released, and in the drawings I show a suitable locking device for that purpose.

A convenient and simple locking device is made up of a hook *f*, having a thumb-piece *f'* and journaled on the pin in one of the joints *b³*. The pin in the other joint *b³* is made long enough to project from its mousing-hook and to receive the hook *f*.

What I claim is—

The combination of a support *a* with a pair of mousing-hooks *b b'* and a spring *d*, the shanks of the hooks *b b'* being crossed and loosely pinned together at *b²* and each shank being jointed at *b³*, intermediate the pin at *b²* and support *a*, springs *d* being mounted between the hooks *b b'*, intermediate joints *b³*, and support *a* and loosely pinned to support *a*, all substantially as shown and described.

FREDERICK S. HILTON.

Witnesses:

EDWARD S. BEACH,
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