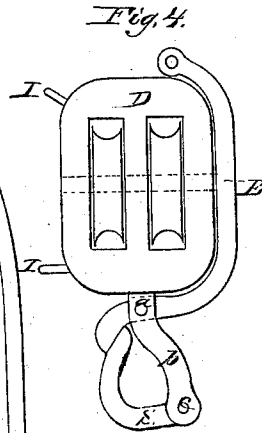
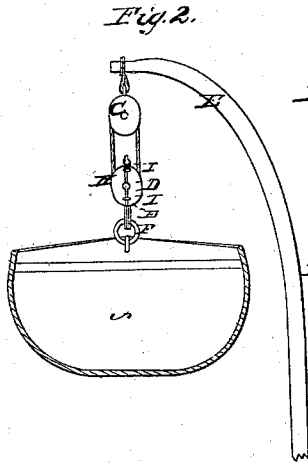
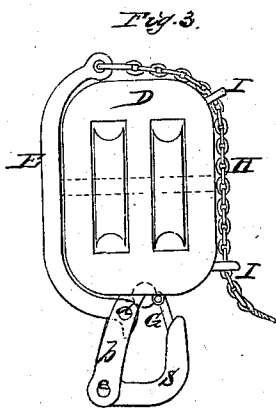
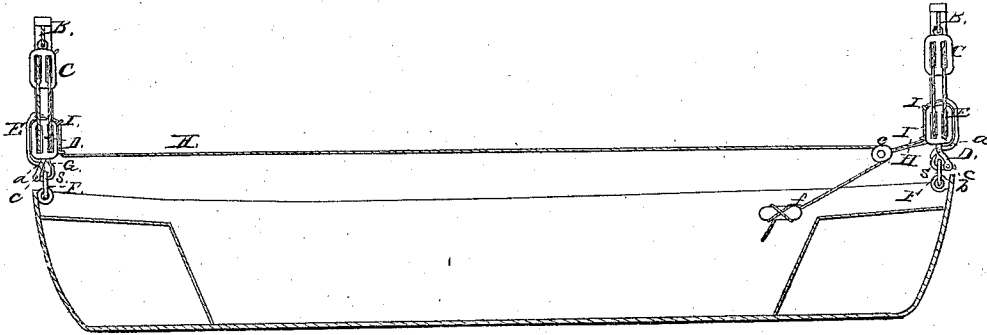


*C. H. Ramsten,  
Boat Detaching.*

*N<sup>o</sup> 66,105.*

*Patented Jun. 25, 1867.*



*Witnesses.*

*J. J. Corbitt  
G. W. Reed.*

*Inventor.*

*Carl Henrik Ramsten.*

# United States Patent Office.

CARL HENRIK RAMSTEN, OF CARLSKRONA, SWEDEN.

Letters Patent No. 66,105, dated June 25, 1867.

## IMPROVED BOAT-DETACHING TACKLE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

I, CARL HENRIK RAMSTEN, of Carlskrona, in the Kingdom of Sweden, and now temporarily residing in the city, county, and State of New York, have invented a certain new and useful improvement on Boat-Detaching Tackle, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figure 1 represents a longitudinal section of a boat with my improved detaching apparatus applied thereto.

Figure 2, a sectional view of the same, taken at right angles to fig. 1; and

Figures 3 and 4, views on a larger scale (under two modifications of the hook) of a boat-tackle block, in illustration of my invention.

Like letters indicate like parts throughout the several figures.

This my invention relates to that description of boat-detaching apparatus in which the disconnecting apparatus is in immediate connection with the davit-block, and so as to form an appendage to the same, in contradistinction to a fixed connection thereof to the boat, involving a special construction of the latter, with a rod or its equivalent running lengthwise of the boat for detaching the hooks at opposite ends; and the nature of my invention consists in a novel combination, with either davit-block at opposite ends of the boat, of a lever and jointed hook, forming attachments or appendages to the block, the lever acting as a lock to the hook, which, on being released, swings or opens independently of the former that is operated, to secure and unlock the hook by a rope or chain, or ropes and chains connecting the two levers of the opposite blocks on the same level, the detaching hooks fitting into eye-bolts, or their equivalents, attached to the boat, and the ropes or chains, which operate the unlocking levers to the separately swinging hooks, being led through fair-leaders, so arranged on the sides or edges of the blocks as to restrain canting or tipping of the latter; also, it may be, the block being provided with a spring or weighted mousing, that in the riding of the boat admits of the gear of the eye-bolts, attached to the boat, with the jointed or hinged hooks of the blocks, without allowing of their retraction accidentally.

Referring to the accompanying drawing, A represents a ship's or other vessel's boat, B the davits, and C D the upper and lower blocks of the falls. E is a lever, running up along one edge or end of each lower davit-block, and pivoted as at *a*. Connected with the arms *b*, to which said levers are pivoted, are separately pivoted, as at *c*, hooks S, that may either be constructed, as shown at the right hand of fig. 1, and in fig. 4, to lock or be locked by an extension of the levers beyond the fulcrum *a*, as described in Letters Patent of the United States issued to me, bearing date the 23d day of October, 1866, or may be locked by a similar short extension of said lever, locking in connection with an inner extension of the hook, as illustrated at the left hand of fig. 1, and in fig. 3, instead of locking on the outer end, arm, or nose of the hook, as referred to. In this latter case, however, it may be desirable to prevent the unhitching of the ring or eye-bolt F in the boat from the hook, to furnish the block with a spring or weighted mousing, G, which, while admitting of the easy introduction by the closing of the hook of the eye-bolts, prevents its return or unlocking in the riding of the boat in a rough sea. Whatever the form of detaching hook, however, that may be adopted, it is important that the hooks S, proper, should be hung so as to swing separately and distinct from their locking levers, and that these separately-swinging hooks should be distinct from or have no rigid or fixed connection with the ordinary davit-blocks, that may here be dispensed with, as it is by such construction that a secure hold and easy or certain release of the boat is established. Attached to the upper or opposite ends of the locking-levers E are ropes or chains, H, arranged to run through fair-leaders I, formed of small eyelets, pulleys, or blocks, situated one above and the other below, on the inner edges of the blocks D, and connected, say the one rope or chain H permanently with a block or pulley, *e*, and the other of such ropes or chains running loosely through the same, and, when required to hold the boat, lashed round a cleat, or in any suitable manner. By means of the fair-leaders I, disposed as described, the canting or tipping of the blocks, in attaching or detaching the boat in a rough sea, is avoided, said fair-leaders having a counteracting inward effect on the blocks to the pull or strain of the ropes or chains on the upper ends of the locking-levers, and serving to keep the blocks plumb or straight.

Among the various general advantages incidental to this improvement, as compared with detaching devices forming appendages to the boat instead of the blocks, are that the invention may be applied to any ordinary

boat, and that within a few minutes, or a spare block be easily substituted for a damaged one, and that the boat is not divided or cut up by detaching devices, nor the latter so liable to be frozen up as if lying within or at the bottom of the boat, nor yet so liable to be deranged when situated along the gunwales of a boat, on the side or sides of the latter being stove in. In some cases, or for some purposes, a single block fitted with a locking-lever, separately-pivoted detaching hook, and fair-leaders, for operation by a single rope or chain, may be used.

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

A tackle-block, D, provided with a locking-lever, E, to a hinged or pivoted detaching hook, S, and fair-leaders I, all arranged substantially as described, and for operation, in connection with or by a rope or chain, H, essentially as specified.

CARL HENRIK RAMSTEN.

Witnesses:

J. W. COOMBS,

G. W. REED.