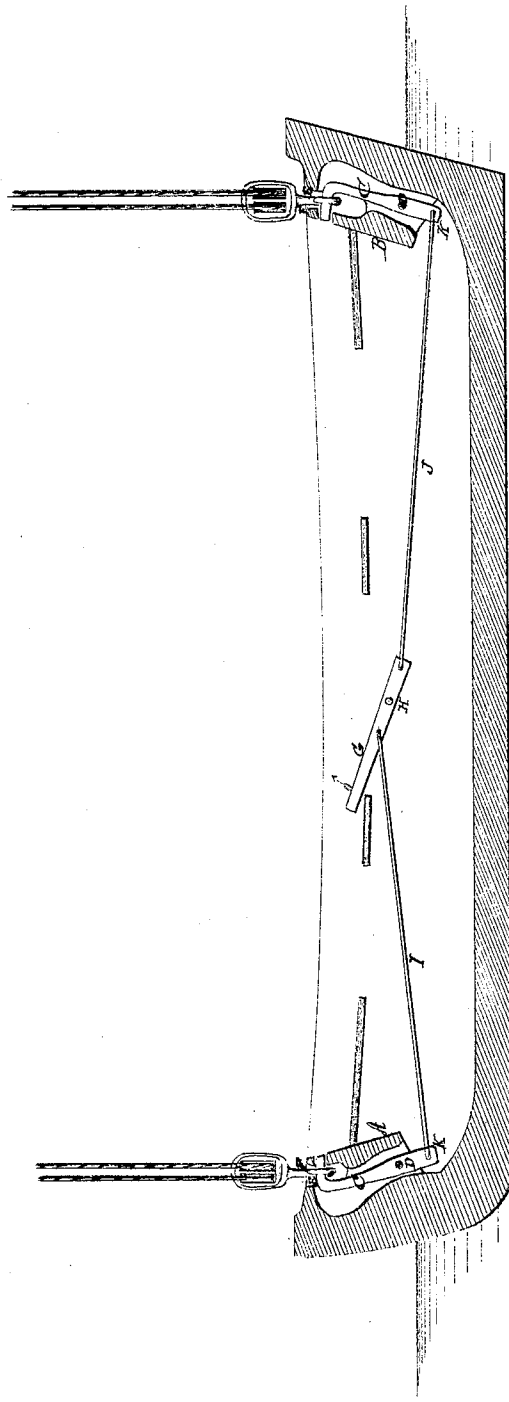


N. C. Reynolds,
Detaching Boats.

No. 101,312.

Patented Mar. 29, 1870.



Witnesses:

M. Gorbunov
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Inventor:

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PER

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United States Patent Office.

NATHANIEL C. REYNOLDS, OF ELLSWORTH, MAINE.

Letters Patent No. 101,312, dated March 29, 1870.

IMPROVEMENT IN BOAT-DETACHING APPARATUS.

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

To all whom it may concern:

Be it known that I, NATHANIEL C. REYNOLDS, of Ellsworth, in the county of Hancock and State of Maine, have invented a new and useful Improvement in Boat-Detaching Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to a new and useful improvement in a device or apparatus for simultaneously detaching the ends of a boat from the davit-tackle, and

It consists in operating a detaching-lever hook at the bow and at the stern of a boat by means of a lever and connecting-rods, as hereinafter more fully described.

The accompanying drawing represents a vertical longitudinal section of a boat provided with my detaching apparatus.

Similar letters of reference indicate corresponding parts.

A and B represent blocks of wood or metal permanently attached to the bow and stern on the inside of the boat, as seen in the drawing. These blocks may each be made in two pieces, secured together by bolts or screws, or of a single piece mortised out or formed with suitable cavities for receiving the detaching-hooks and giving them the necessary play.

C represents the detaching-hooks, which work as levers, with their fulcrums at D in the blocks A B.

E represents vertical slots in the blocks A B, which allow the hooks F of the davit-tackle to descend

sufficiently to receive the detaching-hooks, as seen in the drawing.

G is a lever whose fulcrum is at H, at or near the center or middle of the boat.

I and J are rods which connect this lever with the lower ends of the detaching-lever hooks, as seen at K K.

These rods are connected with the lever G at equal distances on each side of the fulcrum H.

As seen in the drawing, the boat is attached to the davit-tackle. By raising the lever G to an upright position, it will be seen that the detaching-hooks C C will be simultaneously withdrawn from the davit-hooks. This releases both ends of the boat at the same instant, thereby allowing the boat to strike the water in its proper position, thus avoiding the accidents which so frequently occur in launching boats at sea or on the water.

By this arrangement the boat is dropped squarely into the water by a simple movement of the lever G, and by one man. This is a very cheap and simple apparatus, and its advantages must be obvious to all.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The lever-hooks C C, blocks A B, rods I J, and lever G, when the same are constructed, combined, and arranged to operate substantially as and for the purposes herein shown and described.

N. C. REYNOLDS.

Witnesses:

S. B. REYNOLDS.

J. S. REYNOLDS.