



# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN BOAT ATTACHING AND DETACHING APPARATUS.

Specification forming part of Letters Patent No. **200,270**, dated February 12, 1878; application filed January 5, 1878.

*To all whom it may concern:*

Be it known that I, BRADLEY A. FISKE, of Naperville, in the county of Du Page and State of Illinois, have invented certain new and useful Improvements in Boat Attaching and Detaching Devices; 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 which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a side elevation of my improved boat detaching and attaching apparatus, showing the boat in longitudinal section; and Fig. 2 is a perspective view of one of the detaching and attaching devices.

Corresponding parts in the two figures are denoted by like letters.

This invention has for its object the unlocking and locking of the holding device by means of a single lever or a single shaft by one person, thus simplifying and rendering safe the lowering of boats into the water, suspended from the davits of a ship or vessel, substantially as hereinafter more particularly set forth.

In the annexed drawings, A represents an upright bar, screwed or otherwise securely fastened to the keel B.

Pivoted to the upper end of the bar A by means of the pivot *a* is a hooked lever, C, which receives the ring or link D, depending from the lower block suspended from the davit. Upon the lower end of the hooked lever C is a capped pin or projection, *e*, the purpose of which will be explained hereinafter.

Pivoted to the stem and moving in a vertical plane is a shaft or lever, E, having a flange or projection, *e*, which engages with the pin *e*, to prevent the hooked lever C from revolving and releasing the ring D.

Fastened to the pin *e* is a wire or other suitable material, F, which extends to and is fastened upon a similar pin on the detaching device in the forward end or bow of the boat, thus connecting the two hooks together, to

be operated simultaneously by the lever E, situated in the rear end or stern of the boat.

Connected to and extending forwardly from the upright bar A is a horizontal arm, G, having upon its outer end a weighted lever or counter-balance, *g*, the purpose of which—the counter-balance—is to prevent the ring or link D becoming detached from or slipping off the hooked lever C.

A stop, *g'*, upon the arm G holds the weighted lever *g* in position against the end of the hook C.

It will be seen that as the boat reaches the water, by raising the lever or shaft E until the flange *e* is disengaged from the cap *e*, the strain upon the hook C will cause it—the hook—to revolve on its axis, and the chain or wire, being slackened, will cause the forward hook to revolve simultaneously with the after-hook, as shown by the dotted line, Fig. 1, thus freeing the links from the hooks and dropping the boat into the water.

To attach the boat in order to be raised to the davits, place the hook in its original position, rest the lever or shaft E upon the cap *e* so that the projection or flange *e* will engage with said cap *e*, and hook the rings (suspended from the lower blocks of the tackles) over the hook C, and the boat is attached, ready to hoist.

The lever or shaft E may be placed in the bow or forward end of the boat. It may also work in a horizontal plane.

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

1. In a boat detaching and attaching apparatus, the hooked lever C, having a pin or projection, *e*, in combination with the lever E, provided with a flange or projection, *e*, substantially as and for the purpose set forth.

2. In a boat detaching and attaching apparatus, the hooked lever C, in combination with the arm G, provided with a weighted lever, *g*, and stop *g'*, substantially as and for the purpose set forth.

3. In a boat detaching and attaching apparatus, the hooked lever C, having a pin, *e*, in combination with the lever or shaft E, pro-

vided with a flange, *e*, and the connecting wire, chain, or other suitable material F, substantially as and for the purpose set forth.

4. In a boat detaching and attaching apparatus, the upright bar A, hooked lever C, pin *c*, arm G, weighted lever *g*, stop *g'*, lever E, flange *e*, and connecting-wire F, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereunto affix my signature in presence of two witnesses.

BRADLEY ALLAN FISKE.

Witnesses:

S. B. MALLORY,  
H. M. DOMBAUGH.