W. McK. BELL.

BOAT-DETACHING APPARATUS.

No. 188,039. Patented March 6. 1877.

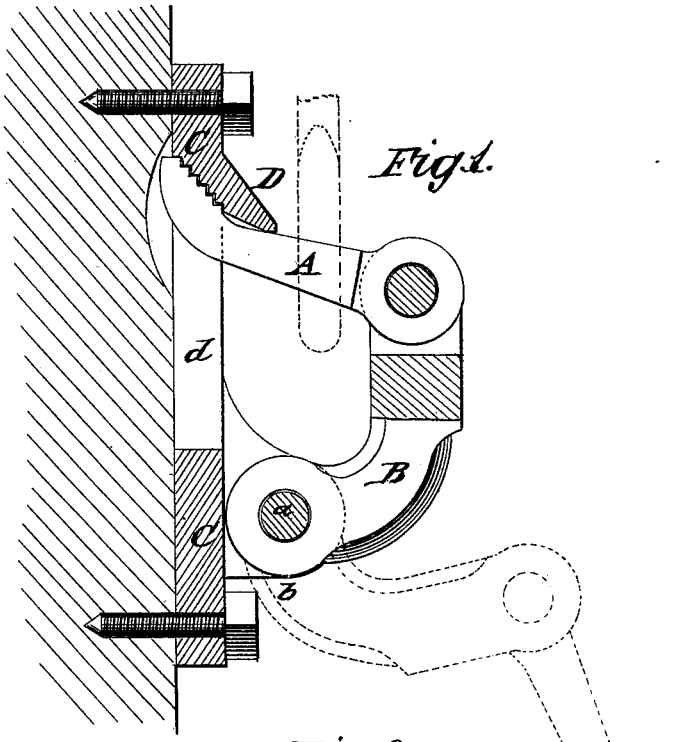
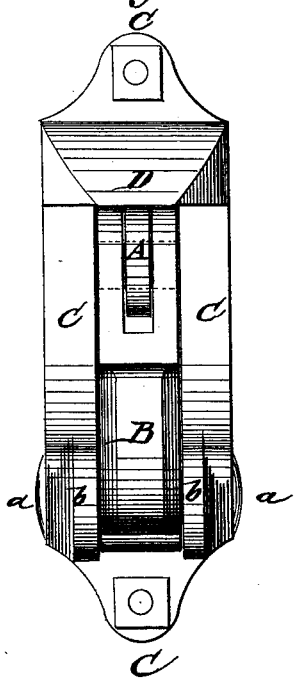


Fig. 1.

Fig. 2.



WITNESSES:

Francis McArdle.

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UNITED STATES PATENT OFFICE.

WILLIAM McK. BELL, OF COLLINGWOOD, ONTARIO, CANADA.

IMPROVEMENT IN BOAT-DETACHING APPARATUS.

Specification forming part of Letters Patent No. **188,039**, dated March 6, 1877; application filed January 19, 1877.

To all whom it may concern:

Be it known that I, WILLIAM MCKAIL BELL, of Collingwood, in the Province of Ontario, and Dominion of Canada, have invented a new and Improved Boat-Detaching Apparatus, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a sectional side elevation of my improved boat-detaching apparatus, showing the same in dotted lines after detaching the boat; and Fig. 2 is a front view of the same.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide a boat-detaching apparatus that is simple of attachment, and can be used with the present style of davits and tackle, suspending the boat in reliable manner, and detaching it instantaneously and automatically as soon as it is lowered into the water. The invention consists of a detaching device applied to the boat, and made of a supporting-frame or plate with a pivoted tumbling-bar and swinging tongue, locking by its toothed or serrated end to a correspondingly toothed projection or catch of the supporting-plate, until the pressure on the tongue is released, and thereby the same detached.

In the drawing, A represents the tongue, B the tumbling-bar, and C the supporting frame or plate, of my improved boat-detaching apparatus. The supporting frame or plate C is bolted to the inside of the bow and stern-posts of the boat, and made of cast-iron, while the tumbling-bar and tongue are made of wrought-iron. The curved tumbling-bar B swings, by pivots or studs *a*, in ears or lugs of plate C, while the tongue A is pivoted to its forked upper end. The supporting-frame C is provided with a slotted center recess, *d*, for the entrance of tongue A, and has at the upper end a downwardly-inclined projection or catch, D, which is toothed or serrated at the under side, so as to interlock with the curved and serrated end of tongue A, as shown in Fig. 1. When the tongue is placed in this position, a space is provided between plate C, tongue A, and bar B, into which the hook of the boat fall-block may be introduced and locked on tongue A, by throwing the weight of the boat on the same, and producing the rigid interlocking of tongue and catch D as long as the boat is suspended.

When the boat is lowered into the water and carried by the waves, the pressure on tongue A, by the weight of the boat, is taken off, so that tongue A is first allowed to drop in the direction of the arrow shown in Fig. 1, and then swung jointly with the tumbling-bar into the position shown in dotted lines in Fig. 1, so as to clear the hook of the block, and detach thereby the boat from the same, in simple, reliable, and perfectly automatical manner, avoiding effectively the danger of accidents arising from the insufficiency of the present detaching devices.

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

In a boat-detaching apparatus, the combination, with curved tumbler B, of the pivoted tongue A, end bent and locking with a rigid catch in the slot of fast plate C, the tongue and catch being serrated, as shown and described.

WILLIAM McKAIL BELL.

Witnesses:

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