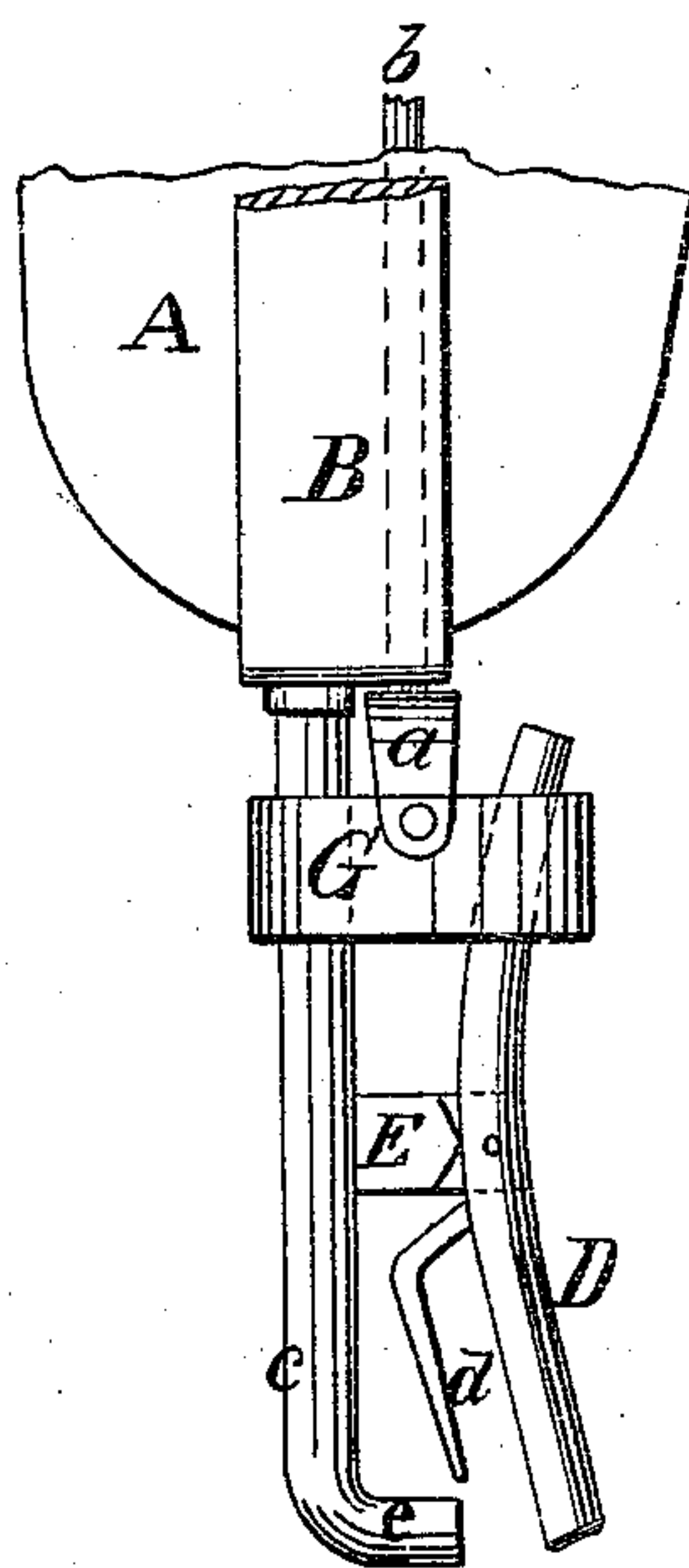
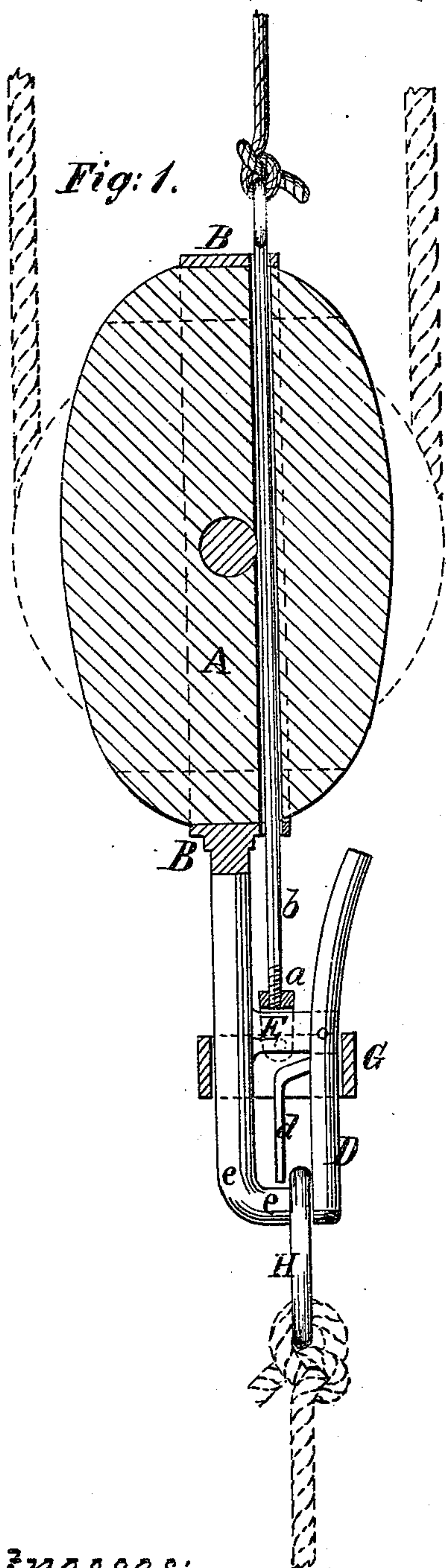


N. M. Ray.
Boat Detaching.

N^o 82,550.

Patented Sep. 29, 1868.



Witnesses:
Wm A. Morgan
C. C. Cotton

Inventor:

N. M. Ray
per Munn & Co
Attorneys

United States Patent Office.

N. M. RAY, OF ELLSWORTH, MAINE.

Letters Patent No. 82,550, dated September 29, 1868.

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, N. M. RAY, of Ellsworth, in the county of Hancock, and State of Maine, have invented a new and useful Improvement in Davit-Blocks and Hooks; 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, in which—

Figure 1 is a sectional side view of my invention.

Figure 2 is a detail side view of the hook.

Similar letters of reference indicate like parts.

The object of this invention is to accomplish the unhooking of boat-tackles without the necessity of a person getting into the boat, whereby the boat may be detached safely and expeditiously, while the vessel is under headway, or when there is much sea on, without liability to fill or swamp.

It consists of a block, provided with detaching-mechanism, the construction and operation of which will be hereinafter more fully set forth.

In the drawings, A is any suitable tackle-block, having a metal strap, B, to which latter is affixed a hook-extension, C. The ring of the boat is held on this hook-extension by means of a lever, D, which is pivoted to a projection, E, forming part of the hook-extension.

The lower arm of this lever is provided with a line or rod, *d*, between which and the lever, the ring H, of the boat, is located when on the hook.

The lever is actuated to open from the hook by means of a band, G, sliding freely on the hook-extension, and on the lever, that is to say, encircling the two. This band is moved up or down by a rod, *b*, which is attached to the band by any suitable device, as the pivoted yoke *a*.

The lever is slightly curved, as shown, so that when the rod is pulled upward, the band will slip on the lever and hook-extension, and open the hook, as shown at fig. 2. This operation of opening causes the line *d* to slip the ring off from the horizontal part *e*, thus detaching the boat.

When the band G is slipped down, the lever is held firmly to the part *e*, making a complete eye, which securely retains the ring.

A tripping-line is attached to the rod *b*, as shown, and the free end is retained on deck, and when the boat is lowered nearly to the water, the said line is jerked, which liberates the boat.

In practice, two blocks are generally required, one for each end of the boat.

When the boat is hauled up to the davits, the end of the rod *b* will be brought in contact therewith, and the band thus held down securely, thus avoiding the danger of accidentally detaching the boat.

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

The lever D, line *d*, rod *b*, and extension C *c*, in combination with a tackle-block, A, all substantially as shown and described, and for the purpose set forth.

The above specification of my invention signed by me, this fifth day of June, 1868.

N. M. RAY.

Witnesses:

N. A. JOY,

N. C. REYNOLDS.