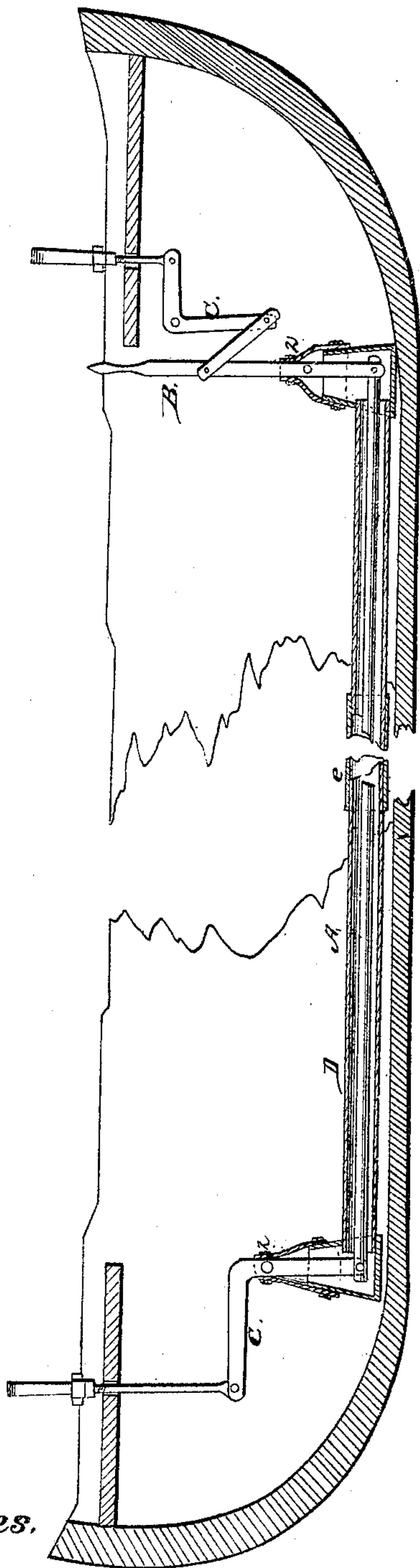


*M. V. Nobles.*  
*Boat Detaching.*

*N<sup>o</sup> 108,507.*

*Patented Oct. 18, 1870.*



*Witnesses.*  
*Villette Anderson*  
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# United States Patent Office.

MILTON V. NOBLES, OF ELMIRA, NEW YORK.

Letters Patent No. 108,507, dated October 18, 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, MILTON V. NOBLES, of Elmira, in the county of Chemung and State of New York, have invented a new and valuable Improvement in Boat-detaching Apparatus ; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my invention as applied to the detaching apparatus of an ordinary boat.

My invention relates to means for protecting the disconnecting or detaching apparatus of boats ; and consists, mainly, in the construction and novel arrangement of devices designed to constitute a water-proof casing for the main connecting-rod, and the adjacent parts which lie at or near the bottom of the boat. This is an improvement upon my disconnecting apparatus for which Letters Patent of the United States, No. 65,824, dated June 18, 1867, have been issued ; but it is intended to be applied to all similarly or suitably-constructed detaching apparatus.

The letter A of the drawing designates the horizontal connecting-rod, operated by the lever B, and arranged to connect the bell-cranks C C at the lower ends of the disconnecting-rods.

D represents a water-proof tube or casing of suitable material, designed to inclose the rod A, and at the same time to permit free movement thereof in a longitudinal direction.

Usually I prefer to make this tube in two sections, connected in the middle by means of a nut or collar, e, in the manner shown.

Attached to each end of the tube D is a flexible covering, Z, of painted sail-cloth or other suitable water-proof material, arranged to cover the movable parts and connecting-joints, and extending as far up

as may be necessary, to guard the parts from any ordinary amount of water which might by accident get into the boat.

The advantages of such an impervious and protecting case are obvious. The parts are thereby kept always ready for work. Being thus protected, the rod cannot be bent out of shape, nor its freedom of movement impeded by the weight of superincumbent articles. The joints at the ends thereof will not be liable to get out of order in consequence of rust, &c. Thus, although the boat may be unused for weeks at a time, yet at the end of this time the parts will work with ease and certainty. Even in the coldest temperature the formation of ice in the bottom of the boat will have no effect in impeding the action of the parts.

My improvement is adapted for use in connection with all detaching apparatus, provided with a connecting-rod or rods extending lengthwise in the boat, and arranged to disconnect both ends of the boat at the same instant, and is designed to perform an essential office in the protection of parts, and destined to lie inactive for long spaces of time, and yet liable to be called upon to operate with celerity and certainty at any moment.

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

In combination with a detaching apparatus for boats, the water-proof tube or casing D, having the flexible covering attachments Z at each end, when arranged to operate as and for the purposes shown and described.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

M. V. NOBLES.

Witnesses:

E. W. ANDERSON,  
D. D. KANE.