

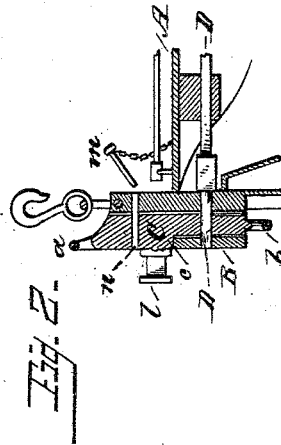
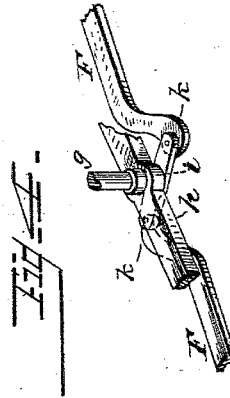
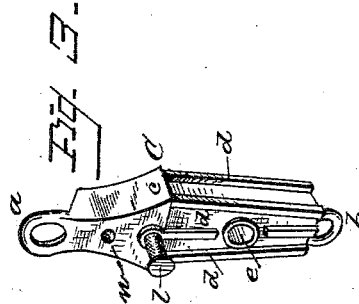
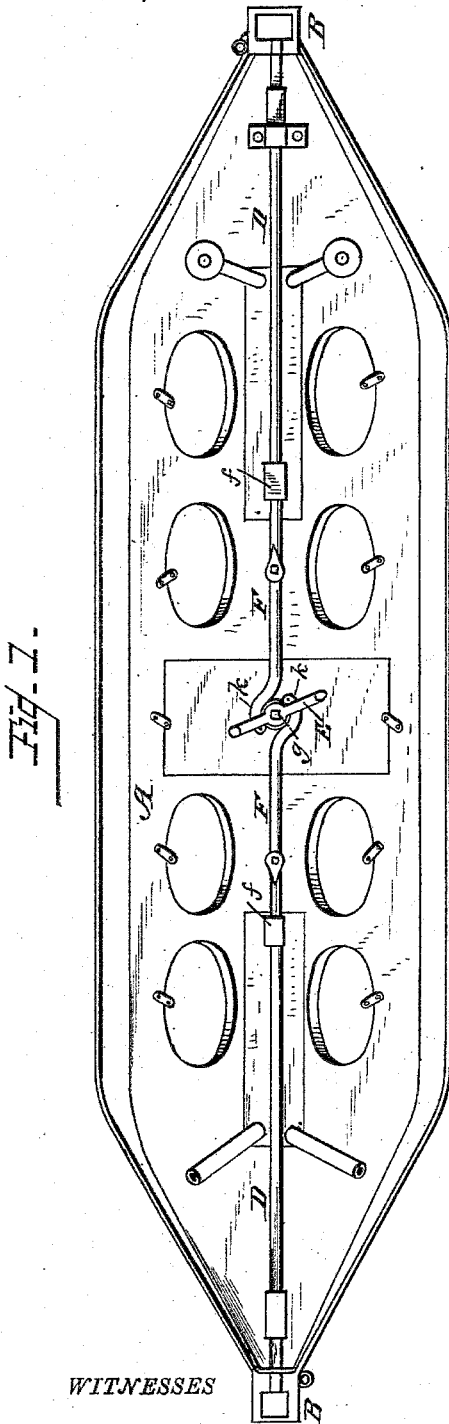
(No Model.)

M. BOURKE.

BOAT DETACHING APPARATUS.

No. 301,556.

Patented July 8, 1884.



WITNESSES

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# UNITED STATES PATENT OFFICE.

MARTIN BOURKE, OF YOUNGSTOWN, OHIO.

## BOAT-DETACHING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 301,556, dated July 8, 1884.

Application filed October 19, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN BOURKE, a citizen of the United States, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented certain new and useful Improvements in Boat-Detaching Devices; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a plan view of the under side of the upper deck or top of a life-boat having connected thereto the mechanism for connecting or securing the holding devices to the ends of the boat when it is desired to lower or raise it. Fig. 2 is a detail view in section showing the holding devices connected to the end of the boat; Fig. 3, a detail view in perspective of one of the holding devices for attachment to the boat and fall-rope of the davits; and Fig. 4, a similar view of the rod, connecting-link, and lever, as a means for fastening the holding devices to the boat.

The present invention has relation to certain new and useful improvements in boat-detaching apparatus; and the object thereof is to provide means whereby the boat is quickly and readily attached or detached from the davits, which object I attain by the devices substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents the top or upper deck of a life-boat, the peculiar construction of which forms the subject of a separate patent, the ends of said top or deck having sleeves B, to receive the holding devices, hereinafter described, by which means the boat is or may be suspended above the surface of the water.

The holding devices (represented at C) are provided with eyes *a* at their upper ends, for attaching thereto the fall-ropes extending down from the usual davits secured to the ship, and at the lower ends of said devices are eyes *b*, for connecting them to hooks on boats of the ordinary construction when it is desired to elevate them to the deck of a ship or vessel.

The sleeves B are preferably formed tapering upon their interior to conform to the ta-

per of the devices C, so that the latter will fit snugly in the sleeves, and at the same time admit of their being readily removed. The devices C are formed with shoulders *c*, to prevent them from wedging themselves in the sleeves B, said shoulders resting on the upper edge of the sleeve, and forming stops to limit their descent for the above-described purpose. To further prevent the devices from binding when inserted in the sleeves, they are cast with grooves *d* on the four sides, for the purpose of decreasing the surface which would come in contact with the interior of the sleeve, thereby lessening the friction between the two, and consequently rendering them more easily removed. After the devices C are inserted in the sleeves B they are securely fastened in place by rods D, the ends thereof passing through the sleeves and through holes *e* in the devices, as shown in Fig. 2, thus acting as bolts to lock the devices to the sleeves. These rods D are operated by a suitable handle, E, connected to the upper end of a short pivotal rod, *g*, having its bearing in a cross-brace, *h*, as more clearly shown in Fig. 4. This rod *g* has rigidly secured to its lower end a link, *i*, to which are pivotally connected the curved ends of levers F, the outer or opposite ends of said levers being pivoted to the ends of the bolt-rods D. The curved ends of the levers F, as shown at *k*, act as cranks when the rod *g* is turned in either direction, and the levers, being pivotally connected to the bolt-rods and to the ends of the link, provide a very simple and practical means of operating the rods D to simultaneously lock or release the devices C. The rods D and levers F being upon the under side of the deck A, and consequently within the boat, they may be used as handles for the occupants of the boat, when they are standing up, to steady themselves against the motion thereof.

The devices C are provided with pivots *l*, so that when the boat is not in use the pivots may rest in slots or bearings formed in suitable brackets connected to the davits, thus allowing the boat to swing backward and forward to take the motion of the ship or vessel.

The holding devices C, although I have shown them with four sides and slightly tapering, may be round, half-round, or any other

desirable shape, and the sleeves B made to correspond, the shape of said devices not affecting the other features of my invention, and therefore I reserve the right to use any form in their construction without departing from the principle of my invention.

When connecting the devices C to the sleeves B, previous to elevating the boat, and where only one man is upon the deck, pins *m* are used, which are fastened to suitable chains or cords secured to the ends of the deck, said pins entering holes *n* in the devices C, and similar holes in an extension to the sleeves B, as shown in Fig. 2. The person, after securing one of the devices in the sleeve by means of the pin, as above described, passes to the opposite end of the boat and connects the other device in like manner. The above means are provided for the reason that it would be difficult to keep the devices both in proper place while the bolt-rods were operated, owing to the rocking of the boat, without more than one person were employed to hold the devices in place with the sleeves while the bolt-rods were made to engage with them.

A suitable socket or sleeve may be provided at each end of the boat to place the pins *m* in when not required for use.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A releasing or holding device for life-boats, formed tapering, and having eyes upon its ends, flanges upon its sides, and provided with a hole for a rod or bolt, substantially as and for the purpose specified.

2. The combination, with a life-boat provided with movable or sliding bolt-rods and tapering sleeves at its ends, of holding and releasing devices of the form to correspond with the taper of the sleeves, and having flanges upon its sides, eyes upon its upper ends for attaching the fall-ropes, holes for the bolt-rods, and holes for a pin connected to the ends of the boat, substantially as and for the purpose set forth.

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

MARTIN BOURKE.

Witnesses:

LAMAR JACKSON,  
W. T. GIBSON.