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B. F. McHORNEY & E. J. KELLEY.
BOAT HOLDING DOWN AND DETACHING DEVICE.

APPLICATION FILED OCT. 28, 1905.

Fig. 1.

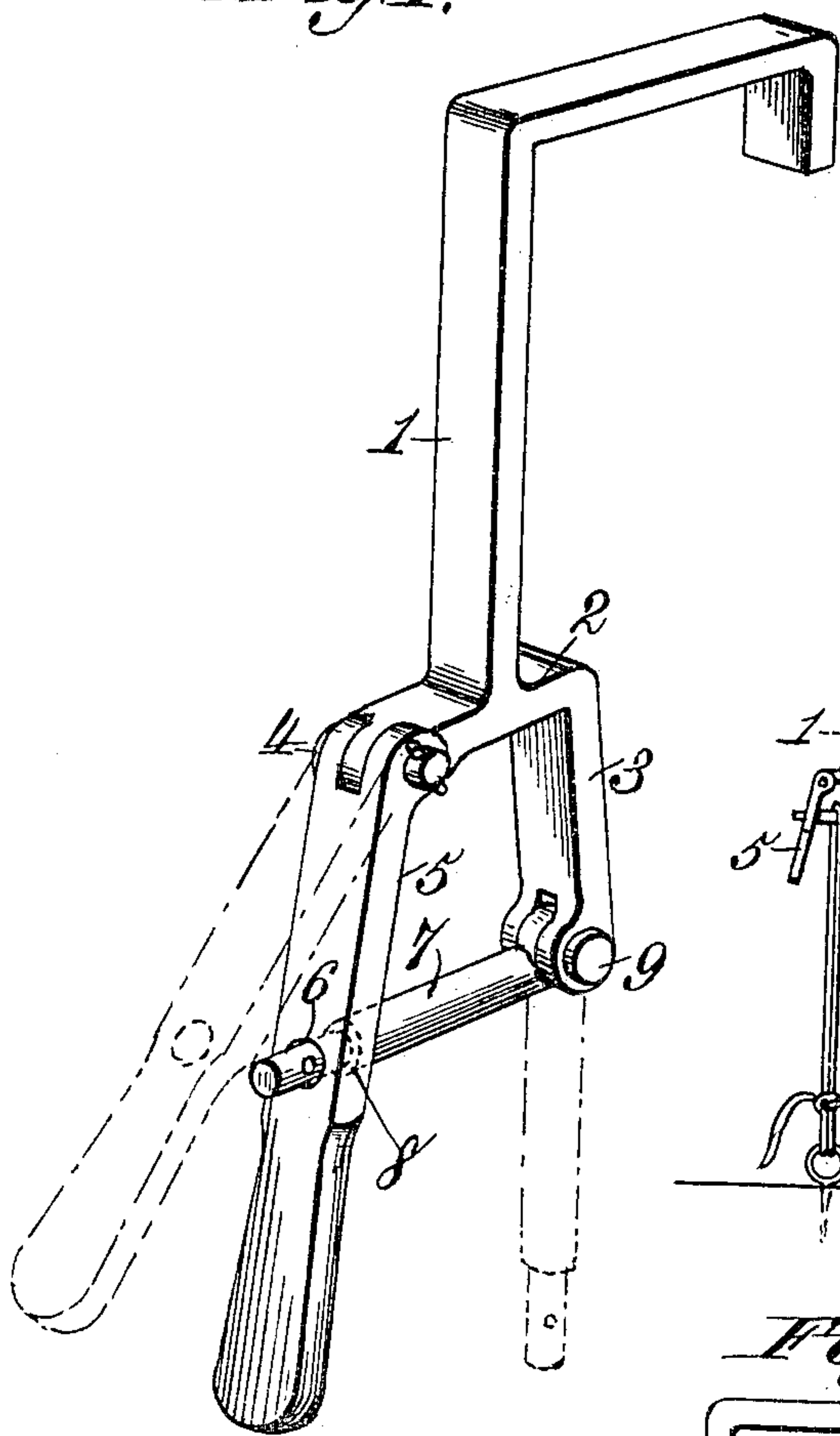


Fig. 2.

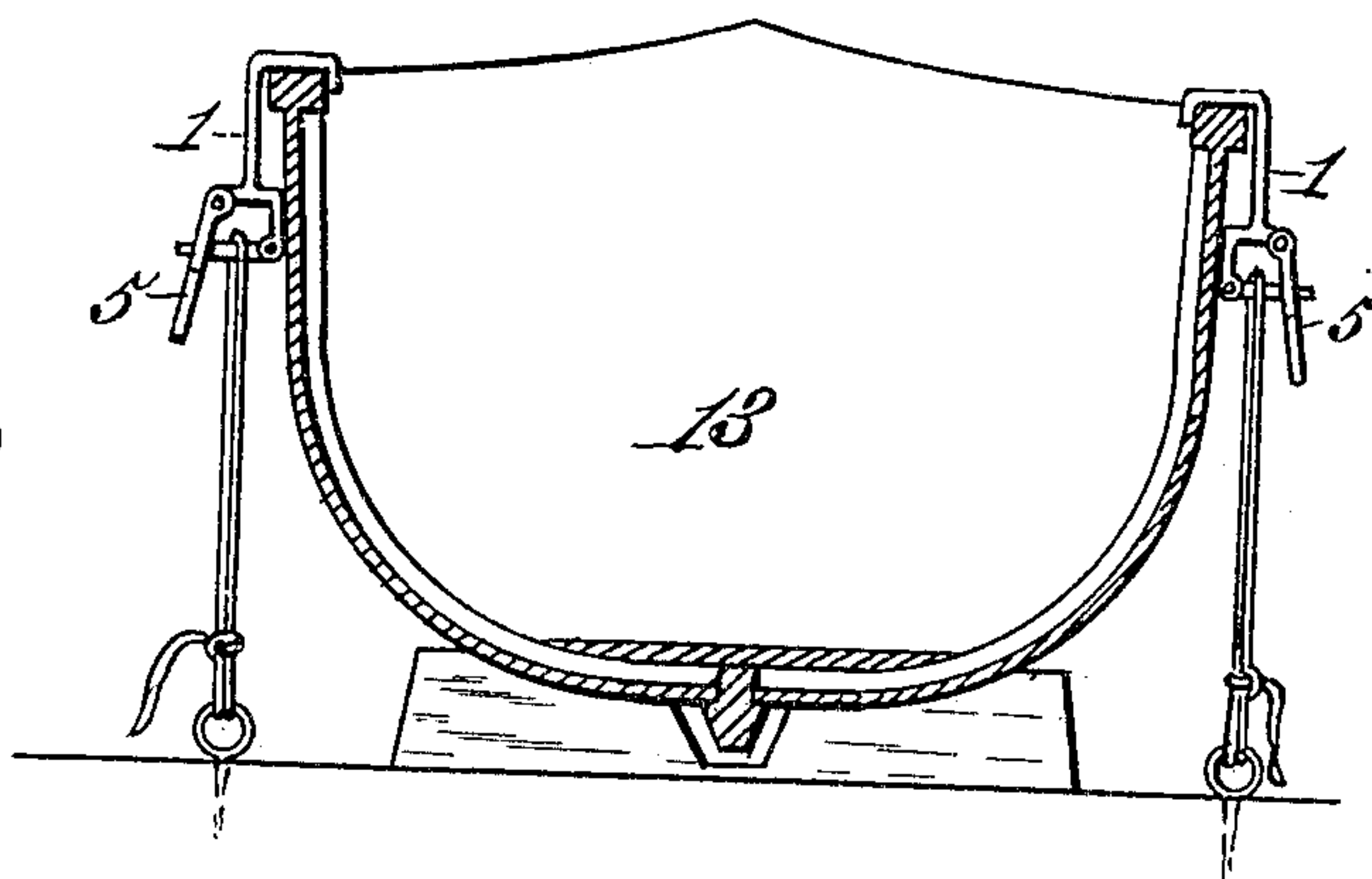
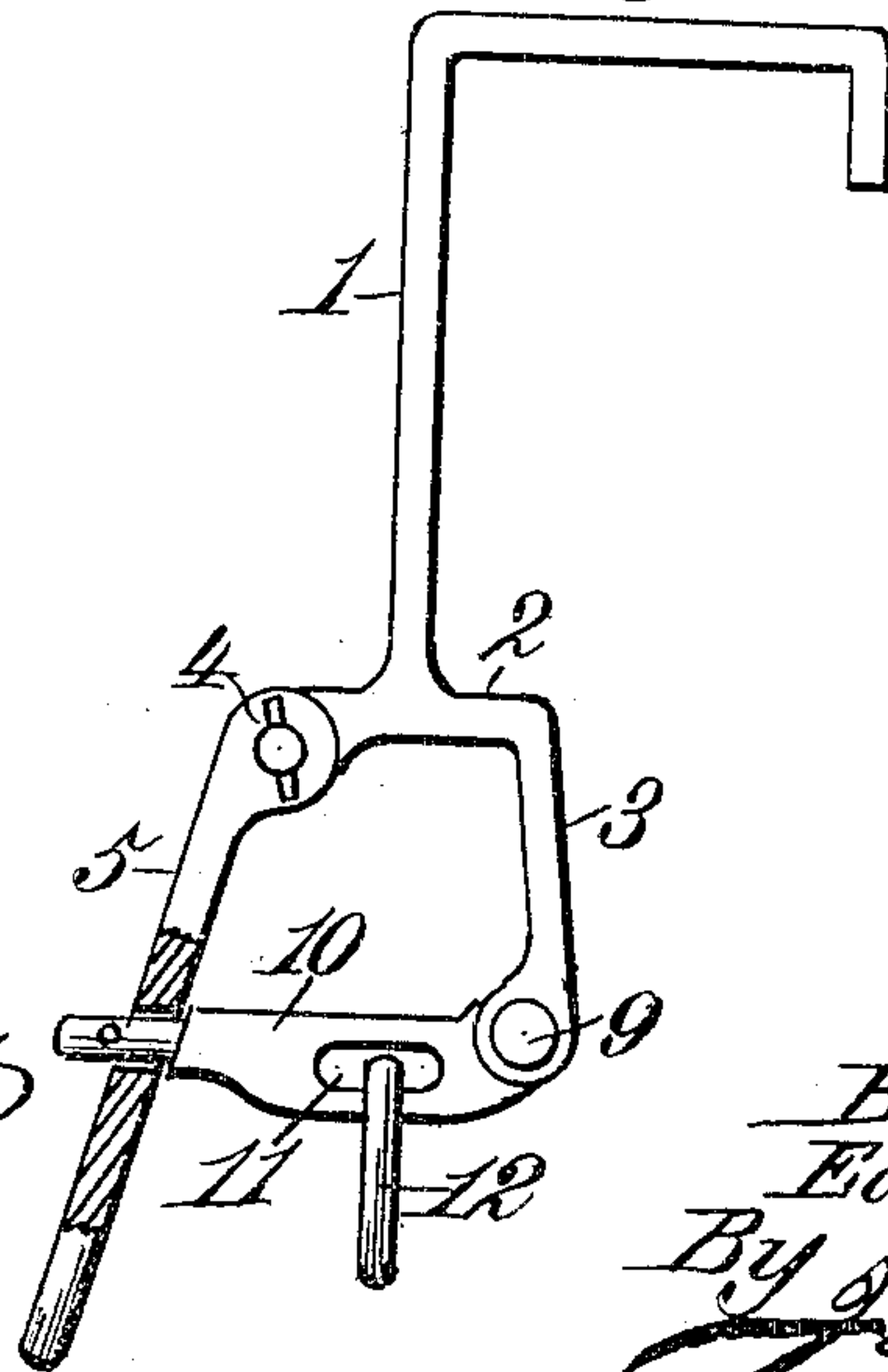


Fig. 3.



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UNITED STATES PATENT OFFICE.

BENJMANE F. McHORNEY AND EDWARD J. KELLEY, OF NORFOLK,
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BOAT HOLDING-DOWN AND DETACHING DEVICE.

No. 819,022.

Specification of Letters Patent.

Patented April 24, 1906.

Application filed October 28, 1905. Serial No. 284,896.

To all whom it may concern:

Be it known that we, BENJMANE F. McHORNEY and EDWARD J. KELLEY, citizens of the United States, residing at Pine Beach, Norfolk, in the county of Norfolk and State of Virginia, have invented new and useful Improvements in Boat Holding - Down and Detaching Devices, of which the following is a specification.

10 This invention relates to boat holding-down and detaching devices for holding boats in an upright position; and the object thereof is to provide an improved device of this class designed for use on the deck of a vessel or in a boat-house and by means of which
15 a boat—such as a row-boat, a life-boat, or other boat of this class—may be held in an upright position, and, furthermore, when used in connection with a vessel is adapted to prevent the boat from being washed overboard
20 by high seas or thrown overboard owing to the lurching of the vessel.

The invention further aims to provide a boat holding-down and detaching device for the purpose hereinbefore set forth and which
25 is so constructed and arranged that when desired the device can be readily operated so as to release the boat to enable the latter to be used when occasion requires.

30 The invention further aims to provide a boat holding-down and detaching device which shall be simple in its construction, strong, durable, securely retaining the boat in an upright position, efficient in its use, and
35 comparatively inexpensive to manufacture, as well as being conveniently set up to operative position and released from such position.

With the foregoing and other objects in view the invention consists of the novel construction, combination, and arrangement of
40 parts hereinafter more specifically described, and illustrated in the accompanying drawings, which form a part of this specification, and wherein is shown the preferred embodiment of the invention; but it is to be understood that changes, variations, and modifica-
45 tions can be resorted to which come within the scope of the claims hereunto appended.

In describing the invention in detail reference is had to the accompanying drawings, wherein like reference characters denote
50 corresponding parts throughout the several views, and in which—

Figure 1 is a perspective view of a boat

holding-down and detaching device in accordance with this invention. Fig. 2 is a transverse section of a boat, showing the application of a boat holding-down and detaching device in accordance with this invention; and Fig. 3 is an elevation of a modified form.

60 A boat holding-down and detaching device in accordance with this invention, and as shown in Fig. 1, comprises a hook-shaped gripping-arm 1, which is adapted to engage the gunwale of the boat when the device is in its operative position. Said gripping-arm 1
65 at its lower end is connected to or formed integral with a supporting-arm 2, the latter at one end terminating or is fixedly secured to a depending member 3, which slightly inclines
70 outwardly. The free end of the supporting-arm 2 has pivotally connected thereto, as at 4, a depending locking-lever 5, provided with an opening 6, through which extends a lash-
75 connecting bar 7. Said bar 7 is formed with a stop 8 to limit the inward movement of the lever 5 and has one end thereof pivoted, as
80 at 9, to the lower end of the member 3. The bar 7 is adapted to form a connecting means between a lash 8 and the attaching device, the lash extending around the bar; and when
85 the bar extends through the lever 5 a connection is formed between the lash and the device. The lash 8 at its other end is secured to an eyebolt 9, fixed to the deck of the vessel or other suitable support.

In the construction shown in Fig. 3 the lash-connecting arm is indicated by the reference character 10 and is provided with an elongated slot 11, in which is mounted a
90 shiftable link 12, to which the lash 8 is attached. Otherwise than that, as stated, the device as shown in Fig. 3 is the same as that shown in Fig. 1, the same reference characters
95 being applied thereto.

In the construction shown in Fig. 1 no means is set up whereby the device is at all times connected to the deck or other support. This will be evident, owing to the fact that
100 when the locking-lever is moved to release the bar 7 the lash 8 will slide off the bar, and consequently the device will be disconnected.

In Fig. 3 a means is shown whereby the device is always attached to the deck or other support, so as to prevent the device from becoming misplaced or lost, and this will be
105 evident by the manner of connecting the lash with the bar 10, this manner of connecting

being the shiftable link 11, to which the lash is permanently attached, and as the link 11 forms a permanent part of the bar 10 it will be evident that when the lever 5 is operated to release the bar the device will not be separated from the deck or other support.

Fig. 2 of the drawings illustrates the manner of using the device, the boat being indicated by the reference character 13 and the gripping-arms engage the gunwale of the boat. To release the boat, the lever 5 is operated in one direction, so as to be free of either the bar 7 or 10. This will slacken the lash, and the gripping-arms 1 can be removed from the gunwale and the boat released. Although in Fig. 2 of the drawings but two devices are shown for retaining the boat in an upright position, one device at each side of the boat, yet the number of devices upon each side of the boat can be increased, if desired.

It will readily be seen from the foregoing description, taken in connection with the accompanying drawings, that a boat holding-down and detaching device is set up by which the boat will be retained fixedly in an upright position and very conveniently released from such position when occasion so requires.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A boat holding-down and detaching device comprising a gripping-arm, a supporting-arm therefor, a member depending from said supporting-arm, a locking-lever pivoted to said supporting-arm, and a lash-holding bar pivoted at one end to said member and adapted to have its other end extend through said lever.

2. A boat holding-down and detaching device comprising a gripping-arm, a supporting-arm therefor, a member depending from said supporting-arm, a locking-lever pivoted to said supporting-arm, and a lash-holding bar pivoted at one end to said member and adapted to have its other end extend through said lever, said bar provided with a shoulder for limiting the movement of said lever in one direction.

3. A boat holding-down and detaching de-

vice comprising a gripping-arm, a supporting-arm therefor, a depending member connected to said supporting-arm, a depending locking-lever pivoted to said supporting-arm, said lever extending substantially in the same direction as said member, and a lash-holding bar pivoted at one end to said member and adapted to have its other end extend through said lever.

4. A boat holding-down and detaching device comprising a gripping-arm, a supporting-arm therefor, a depending member connected to said supporting-arm, a depending locking-lever pivoted to said supporting-arm, said lever extending substantially in the same direction as said member, and a lash-holding bar pivoted at one end to said member and adapted to have its other end extend through said lever, said bar provided with means to limit the movement of said lever in one direction.

5. A boat holding-down and detaching device comprising a gripping-arm, an inverted-L-shaped element connected at the lower end of said arm, a locking-lever pivoted to one end of said element, and a lash-holding bar pivoted to the other end of said element, said lever extending in an opposite direction with respect to the direction in which said bar extends, and said bar adapted to have its free end extend through said lever.

6. A boat holding-down and detaching device comprising a gripping-arm, an inverted-L-shaped element connected at the lower end of said arm, a locking-lever pivoted to one end of said element, and a lash-holding bar pivoted to the other end of said element, said lever extending in an opposite direction with respect to the direction in which said bar extends, and said bar adapted to have its free end extend through said lever, said bar provided with means to limit the movement in one direction of said lever.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

BENJMANE F. McHORNEY.
EDWARD J. KELLEY.

Witnesses:

W. M. HANNAH,
W. W. ELLIOTT.