J. J. HALL.

BILGE DISCHARGING DEVICE.

APPLICATION FILED FEB. 16, 1909.

1,023,843. **Patented Apr. 23, 1912.**

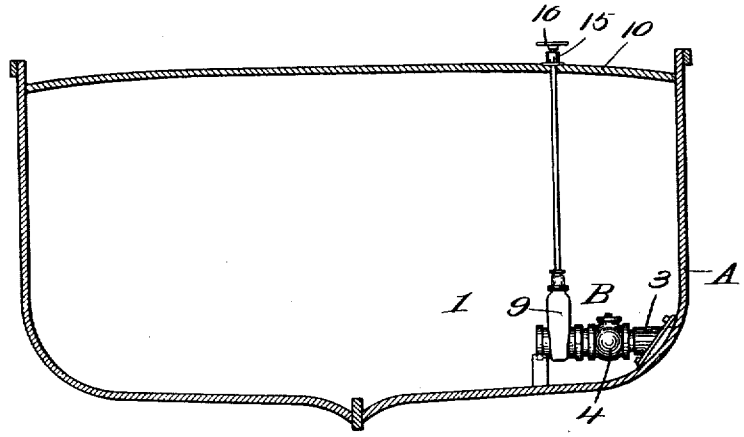

Fig. 1

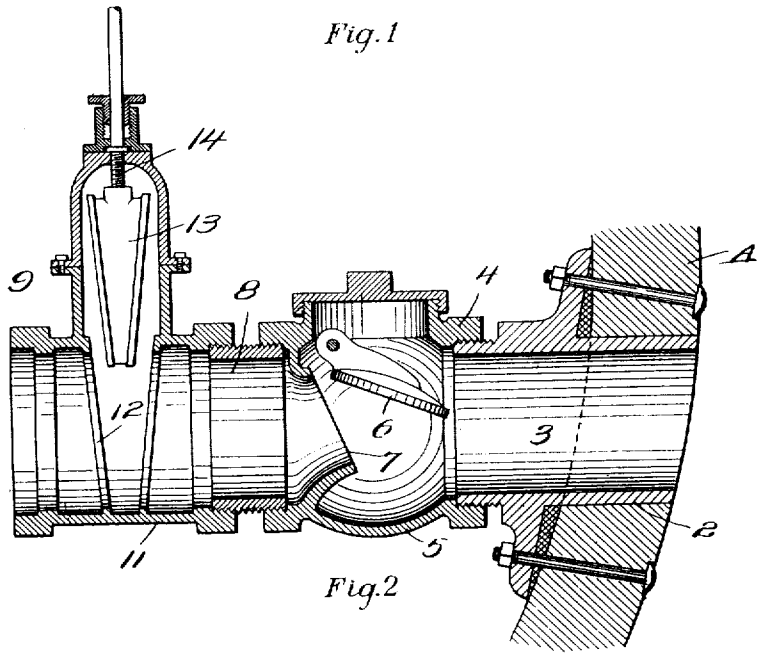

Fig. 2

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Witnesses

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UNITED STATES PATENT OFFICE.

JOHN J. HALL, OF BUCKSPORT, MAINE.

BILGE-DISCHARGING DEVICE.

1,023,843. Specification of Letters Patent. Patented Apr. 23, 1912.

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To all whom it may concern:

Be it known that I, JOHN J. HALL, a citizen of the United States, residing at Bucksport, in the county of Hancock and State of Maine, have invented new and useful Improvements in Bilge-Discharging Devices, of which the following is a specification.

This invention relates to a device intended for use on boats and vessels of different kinds whereby the bilge water can be effectively removed from the hold.

The invention has for one of its objects to improve and simplify the construction of devices of this character so as to be comparatively simple and inexpensive to manufacture and apply, and reliable and efficient in use.

Another object of the invention is the provision of a bilge discharge device which is equipped with a manually-actuated cut-off valve for positively cutting the device out of service when not required.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claim appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention, Figure 1 is a transverse section of the hull of a boat, such as a barge with the bilge discharge device applied thereto. Fig. 2 is an enlarged longitudinal section of the bilge discharge device.

Similar reference characters are employed to designate corresponding parts throughout the views.

In the present instance, the device is shown applied to an ordinary barge, but it is to be understood that it may be employed in connection with steam or sailing vessels, boats, launches and other crafts, and is designed to take the place of the usual plugs.

Referring to the drawing, A designates the hull of the barge, and arranged in the hold 1 thereof at a point near the bilge is the discharge device designated generally by B. In the hull is an opening 2 for receiving a short outlet pipe 3 that is open at its outer end to the water. This pipe is secured to the hull in any suitable manner, and secured to the inner end thereof is a check valve 4 of any approved construction. In the casing 5 of the check valve is a swinging valve body 6 which is adapted to engage an inclined seat 7 when in closed position, so that water can not enter the hold from the outside. Attached to the inlet side of the valve casing by a short connecting sleeve is a manually-controlled valve 9 which can be operated from the deck 10 of the barge.

The cut-out valve consists of a casing 11 having a valve seat 12 with which engages a tapering valve body 13. This valve body is connected with a stem or rod 14 which projects upwardly through the hold and has its upper end mounted in a bearing 15 on the deck, there being an operating wheel 16 on the upper extremity so that the deck hand can open or close the valve when necessary.

In case there is considerable water in the hold, either from the seeping in of the water from the outside or resulting from rain, it is merely necessary to open the cut-off valve so that when the vessel is docked the water in the hold will pass out through the device by way of the valve 6.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claim appended hereto.

Having thus described the invention, what I claim is:—

A bilge discharging device consisting of a tubular outlet member adapted to be secured to a ship hull, a valve casing threaded on said member and provided with an inclined valve seat, a check valve pivoted in said casing to engage said valve seat and adapted to occupy when in a closing position an inclined relation to said valve casing and adapted to open outwardly of said valve seat, a cap threaded on said valve casing

above said valve, a second valve casing threaded on the first valve casing and provided with downwardly converging valve seat guides, a valve V-shape in cross section movable between the valve seat guides and means for forcing the last valve in closing position.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN J. HALL.

Witnesses:
O. P. CUNNINGHAM,
W. A. REMICK.