Aug. 26, 1952 K. L. MOODY 2,608,160

HYDRAULIC PUMPING DEVICE

Filed March 9, 1949

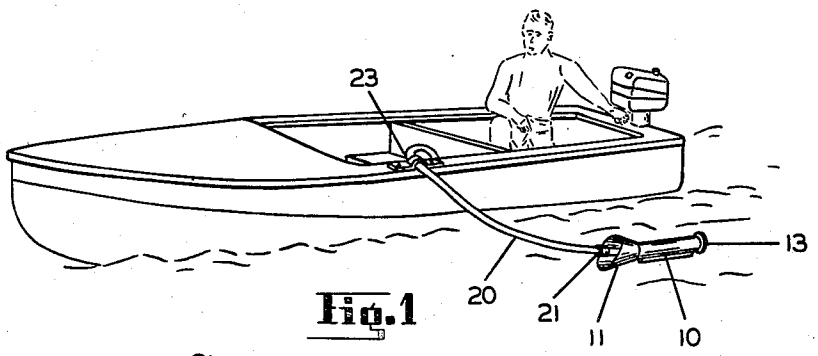


Fig. 1

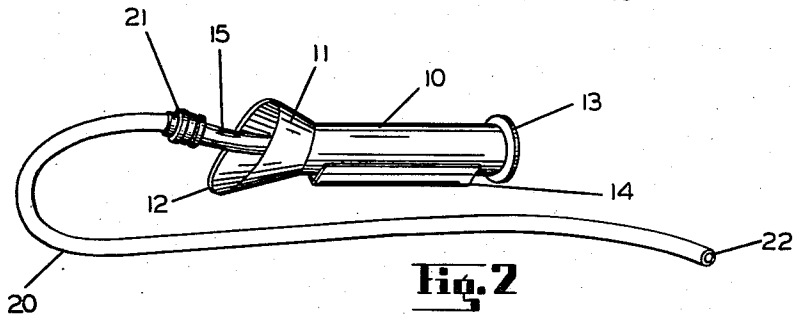


Fig. 2

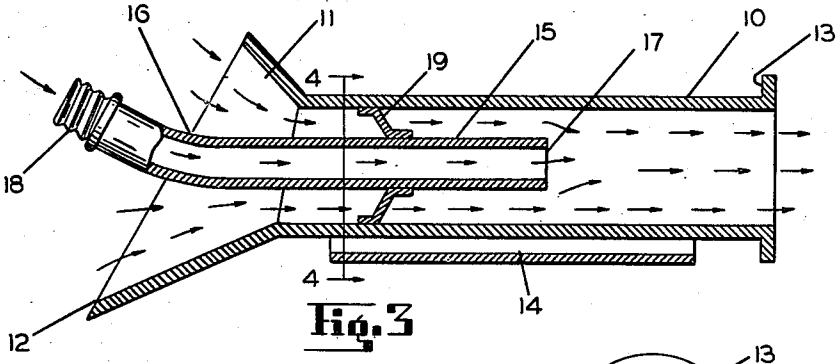


Fig. 3

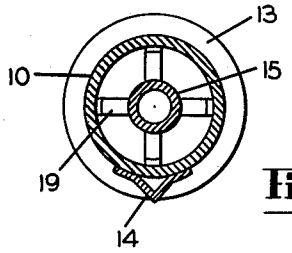


Fig. 4

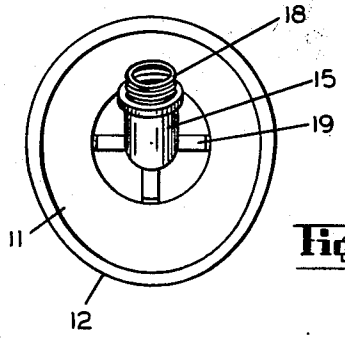


Fig. 5

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HYDRAULIC PUMPING DEVICE

Kenneth L. Moody, Manitowish, Wis.

Application March 9, 1949, Serial No. 80,515

1 Claim. (Cl. 103—262)

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My invention relates to improvements in syphoning devices and more particularly to a device for syphoning water out of an open water craft.

The object of my invention is to provide a means of syphoning water out of the bottom of the hull of a boat or water craft by means of the movement of the craft within the water.

Still another object of my invention is to provide a device that is actuated by the movement of water passing through it longitudinally while the body of the device is submerged.

A still further object of my invention is to provide a device that is portable and easily transported, yet efficient for the purpose for which it is intended.

A further object of my invention is to provide a device that is easy to manipulate, and inexpensive to manufacture.

It is manifest to any one familiar with the art that it is quite frequently necessary to empty water from the inside of a boat due to rain or heavy sea splashing into the bottom of the hull, and that it is ofttimes quite laborious to bale the water with a pail or to tip the boat on a beach to pour out the accumulated water.

The device claimed and specified herein affords a means of draining the excess water from the bottom of the boat by a syphoning process caused by the movement of the craft while trailing the device attached to one end of a tubular hose in a submerged position below the water line and applying the open end of the hose into the surplus water within the craft.

Other and further objects of my invention will become more apparent as the description proceeds when taken in conjunction with the drawing, in which:

Figure 1 is a perspective view of a craft operating on the surface of the water, and trailing the device for the purpose of removing the excess water accumulation within the craft.

Figure 2 is a perspective view of the assembled device.

Figure 3 is a cross sectional view of the device showing the component parts constituting the device.

Figure 4 is a cross sectional view of the device taken at the line 4—4 in Figure 3, and

Figure 5 is a front view of the device.

Similar characters of reference indicate corresponding parts throughout the several views and referring now to the same, the character 10 shows a tubular outer shell open at its forward and rearward end and provided with a funnel shaped inlet

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11, which is shown wider at its lower part 12 so as to keep the entire shell submerged during the movement of the device through the water.

The outer shell 10 is further provided with an angularly disposed flange 13 extending outward at the rear end of the shell 10, this rear flange is employed to maintain the stabilized movement of the device in its path through the water.

At the bottom of the outer shell 10 and longitudinally disposed therewith is shown a weight 14 which acts as a keel to maintain the device in constant position without giving it the rolling effect.

There is an inner tube shown as 15, this tubular member is of a diameter smaller than the inner diameter of the outer shell 10, the tube 15 is open at its forward and rearward ends, the rearward end 17 extends to about half way the length of the outer shell, and the forward end of the tube 15 extends outward from the funnel in a radial fashion shown as 16, and is provided with a threaded member 18 at its forward end.

The tube 15 has its open rear end about half way into the outer shell 10 and the coupling shown as 18 on the front end of the tube 15 permits engagement of a hose shown as 20 and provided with a hose coupling 21 for engagement with the coupling member 18 on the inner tube 15.

The inner tube 15 is centrally disposed and supported in a central manner within the outer shell 10 by means of spacers or supports shown as 19.

The hose 20 when attached to the coupling 18 on the inner tube 15 leaves an open end shown as 22. Obviously, the length of the hose is not important and in use the device is placed into the water adjacent to the boat and the hose portion 20 is retained, either held by hand or attached to the boat as shown at 23 in Figure 1, and as the entire unit trails adjacent to the boat while the boat is in motion, the funnel shaped front 11 of the device will keep the entire unit submerged and the movement of the boat will cause water to enter the funnel 11 passing through the tube 10 and in so doing causing a vacuum or syphon in the rearward end 17 of the tube 15. This will cause a vacuum in the inner tube 15 and will permit the open end 22 of the hose 20 to be submerged in the water disposed within the inside of the boat causing the water to be syphoned out through the hose 20 due to the movement of the boat and movement of the water through the tube 10 as described above.

While I have shown a particular arrangement of the component parts constituting my device I

do not wish to confine myself to the specific construction shown, for there are many changes in the form and configuration of the component parts which may be made without effecting their operativeness and I reserve the right to make such changes as I may deem convenient without departing from the spirit of my invention or the scope of the appended claim.

Having thus described my invention what I claim and desire to secure by Letters Patent in the United States is:

A device of the character described comprising a straight tubular outer shell of the same diameter throughout its length open at both ends and provided with an outwardly extending funnel longer at its lower end, said funnel being attached to the forward end of the shell, an outwardly extending flange at the rearward end of said shell, a centrally supported inner tube open at both ends, said tube extending outward from the forward end of said outer shell from a point therewithin, the front end of said inner tube being arcuately disposed in an upward direction, a longitudinally

extended weight member attached to the outer portion of said outer shell at the bottom thereof, a flexible tube member, and means for attaching one end of said flexible tube member to the forward end of said inner tube.

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