

E. C. Hammond

Ship Pump.

N^o 101,261.

Patented Mar. 29, 1870.

Fig: 1.

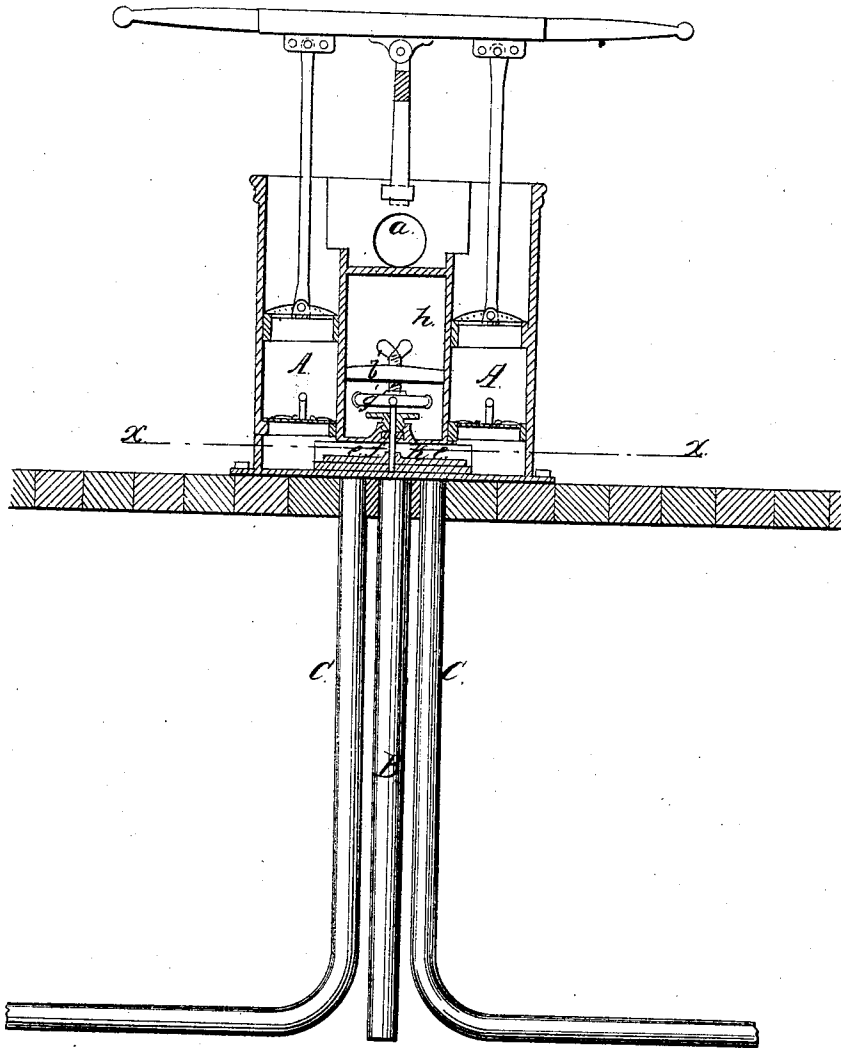
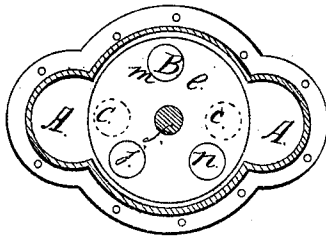


Fig: 2.



Witnesses:

R. Hersh
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Inventor:

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United States Patent Office.

EVERETT C. HAMMOND, OF OSWEGO, NEW YORK.

Letters Patent No. 101,261, dated March 29, 1870.

IMPROVEMENT IN PUMPS.

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, EVERETT C. HAMMOND, of Oswego, in the county of Oswego and State of New York, have invented a new and useful Improvement in Vessel or Ship-Pump; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a vertical section of my invention, and

Figure 2 is a horizontal section of the same, taken in the line *x x* in fig. 1.

Similar letters of reference indicate like parts.

In sail-vessels of a flat build, where bilge-pumps are required, the bilge-pumps have heretofore been placed at the sides of the vessel. But in bad weather, when the lee bilge-pump is required, it is bad to get at, as the leeward side of the deck is low in the water, and is frequently buried or swept by the sea. And in placing bilge-pumps at the sides of a vessel, the plank-sheer has to be cut, which it is also desirable to avoid.

To obviate these objections I connect the bilge-pipe with one of the main pumps in the center of the vessel, and provide a valve in connection therewith, by which the main pump will make connection with either of the bilge-pipes, or with its own pipe, at the will of the operator. And in this manner a main pump is made to do duty of two bilge-pumps in addition to its first duty, which is that of an even-keel or central pump, as hereinafter more fully explained.

In the accompanying drawings—

A A is a double-barreled pump, the two barrels having a common discharge-pipe, *a*, and both taking water from a single supply-pipe.

To the bottom of this pump a straight central pipe, B is connected, and also two bilge-pipes, C c, and in a lower chamber, *k*, fig. 1, which is common to both barrels of the pump, is a circular valve, *e*, in which are three holes or ports, *j m n*, fig. 2. This valve or plate *e* has its lower face ground to cover the upper ends of the pipes C B c tightly, and is suspended on a central

pivot or spindle, *f*, in such manner as to be turned on its seat by a hand-wheel, *g*. By placing the valve *e* in the position shown in fig. 2, the pump makes connection with the central pipe B, and communication with the two bilge-pipes is shut off, thus making the pump an ordinary central or main pump for taking water from the center of the vessel. But by turning the valve *e* to the right, so that the pipe B is shut off, and the port *n* brought into connection with the bilge-pipe *c*, then the pump is converted into a starboard bilge-pump. And by turning the valve to the left, so as to bring the port *j* into communication with pipe C, fig. 2, then the pump is converted into a larboard bilge-pump; and in this manner the local action of the pump is changed at pleasure, and the main pump A A is made to perform its ordinary duty and also that of two bilge-pumps, and the objections heretofore mentioned are entirely obviated, as by these means the bilge-pumps are operated in the middle of the vessel's deck.

The two bilge-pumps may unite in a common pump at the center of the deck, without the center-pump or pipe B; however, I consider the method shown as the most preferable.

Any wear of valve *e* is taken up by a set-screw, *h*, fig. 1, which presses the valve down upon its seat, and this set-screw can also be used for securing the valve in any one of the three positions.

Having thus described my invention,

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

The bent bilge-pipes C c and pipe B, in combination with the pump A, valve *e*, and set-screw *h*, all arranged, constructed and operated in the manner and for the purpose set forth.

The above specification of my invention signed by me this 20th day of November, 1868.

EVERETT C. HAMMOND.

Witnesses:

R. HIRSH,
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