

C. V. DECKER.
Ship's Pump.

No. 225,353.

Patented Mar. 9, 1880.

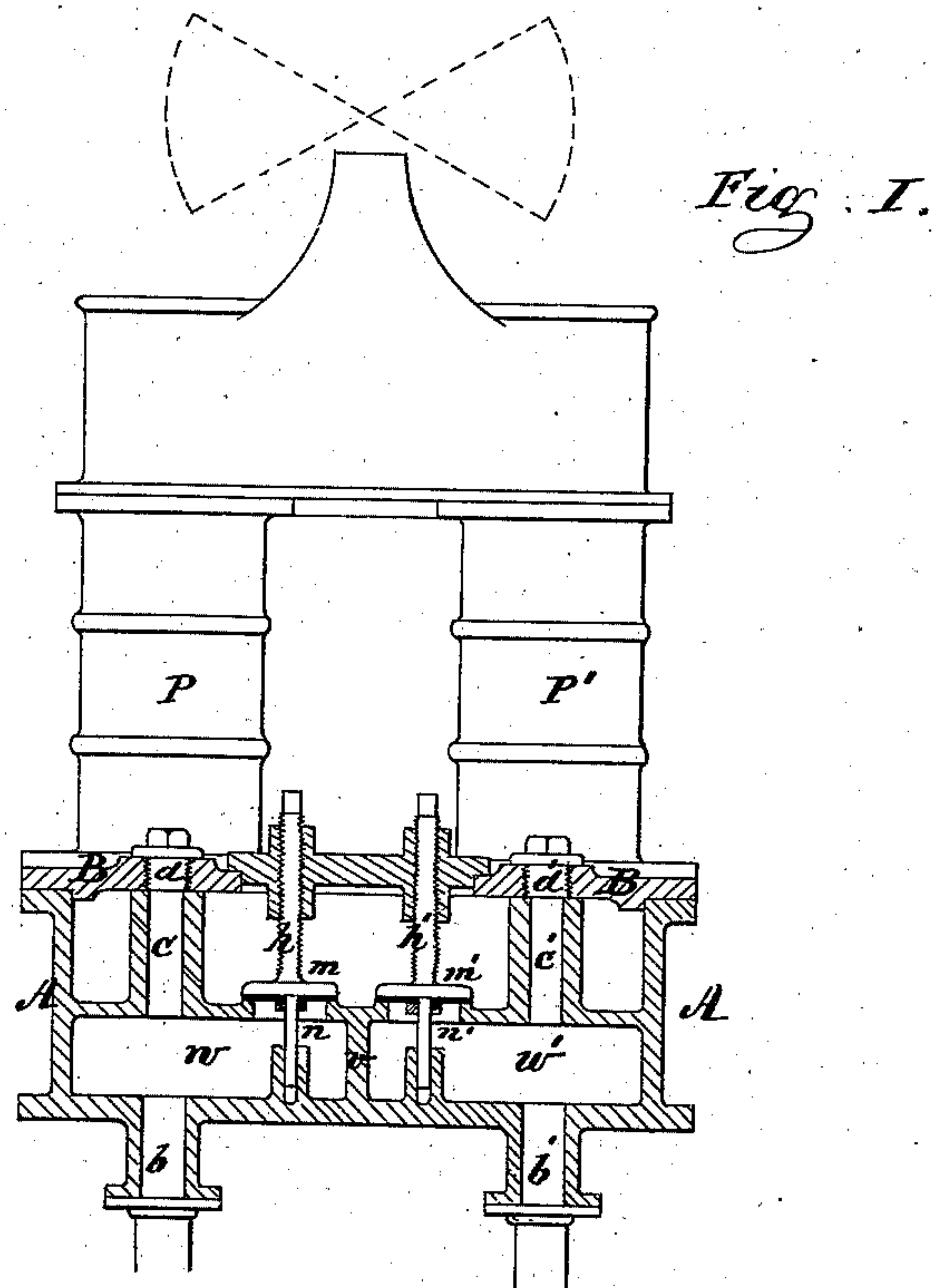
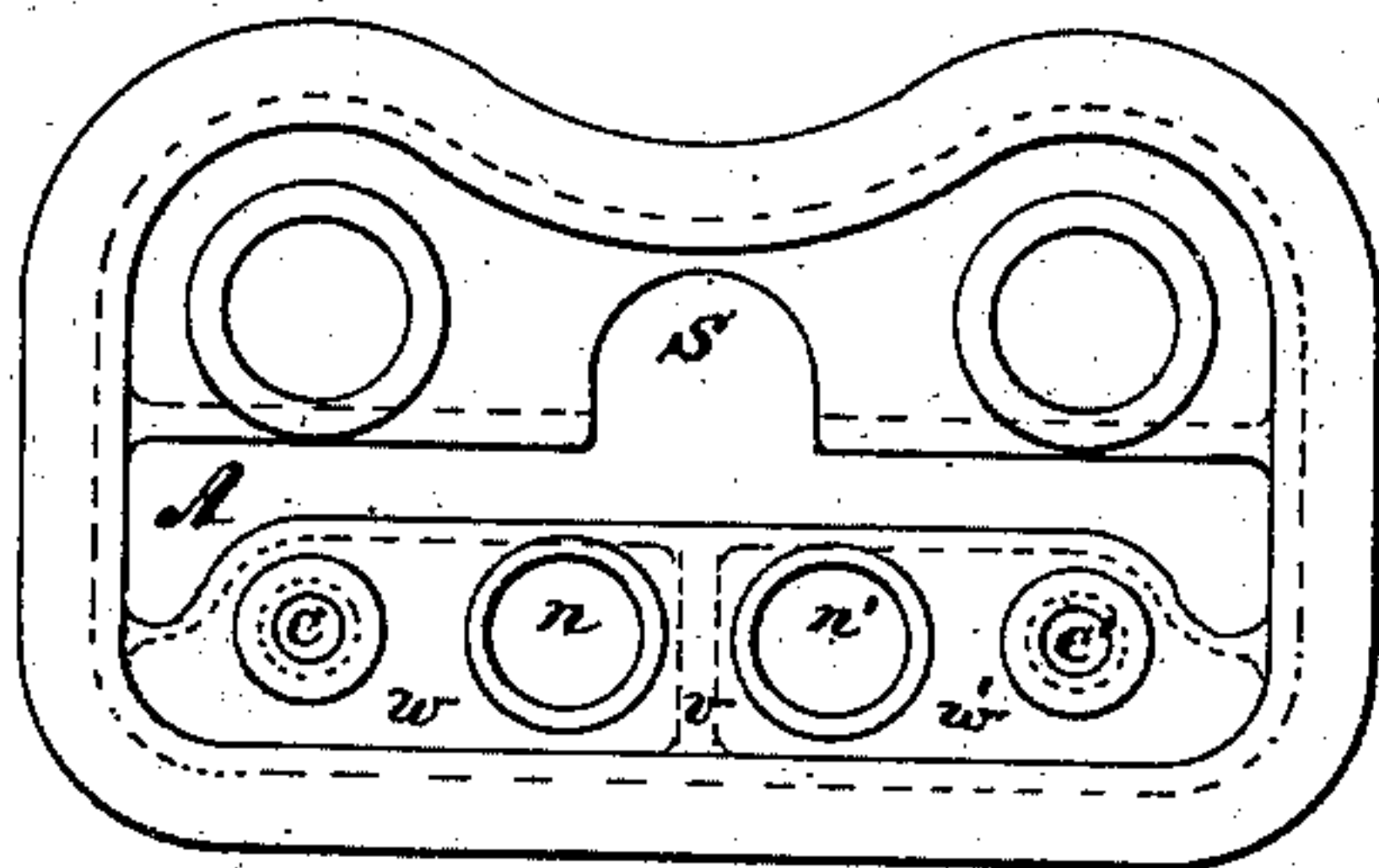


Fig. II.



Witnesses.

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UNITED STATES PATENT OFFICE.

C. VANDERBILT DECKER, OF NEW SPRINGVILLE, NEW YORK.

SHIP'S PUMP.

SPECIFICATION forming part of Letters Patent No. 225,353, dated March 9, 1880.

Application filed December 30, 1879.

To all whom it may concern:

Be it known that I, C. VANDERBILT DECKER, of New Springville, Staten Island, State of New York, have invented a new and useful Improvement in Ship-Pumps, of which the following is a specification.

In ship-pumps the suction has to be taken either from one side or from the other side of the vessel's pipe, or, in some cases, from both sides at one and the same time. For this purpose cocks have usually been arranged whereby this object can be obtained; but this arrangement is very objectionable on account of the sea-water affecting the metal and making the cocks very soon leaky, besides the danger from the multiplicity of the joints.

My improvement consists in the arrangement and construction of a valve-chamber which contains the valves for changing easily the suction, and which support the pump-barrels, and at the same time to provide this chamber or pump-bottom with suitable openings for trying readily the depth of water in the vessel's hold or in the suction-pipes.

In the accompanying drawings, Figure I represents a vertical section of the chamber or pump-bottom embodying my invention. Fig. II is a plan of the same with the cover removed.

Similar letters represent similar parts.

A is the bottom of the pump, attached to the deck of the vessel, provided with bottom branches *b b'*, to which the suction-pipes leading down into the hold of the vessel are attached. Directly above these branches *b b'*

tubes *c c'* are arranged, closed by screw-bolts or caps *d d'*, for the purpose of trying the depth of water in the hold of the vessel at any time. The bottom or under side of the chamber-cover B makes a tight joint upon the ends of these tubes *c c'*.

The branches *b b'* connect with passage-ways *w w'*, made in the chamber A, separated through the division-plate *v*. Into each of these passages an opening, *n* or *n'*, is made, closed with suitable valves *m m'*, operated, by means of suitable screw valve-rods *h h'*, from the outside of the chamber A.

The water drawn through either of the suction-pipes passes through the valve-openings into the body of the chamber, and then, through a passage-way, S, into the pump-barrels P P', attached to the cover B, and arranged and operated in the usual manner.

The lifting-valves *m m'* are provided with an india-rubber or other suitable facing, to insure a tight joint on the face of the valve-seats.

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

For ship-pumps, the chamber A, with passages *w w'*, connecting with the suction-pipes *b b'*, and openings *n n'*, closed by lifting-valves, in combination with the try-tubes *c c'* and pumps P P', arranged in the manner and for the purpose substantially as described.

C. VANDERBILT DECKER.

Witnesses:

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