

C. HUXFORD.

APPARATUS FOR PUMPING SHIPS, &c.

No. 173,544.

Patented Feb. 15, 1876.

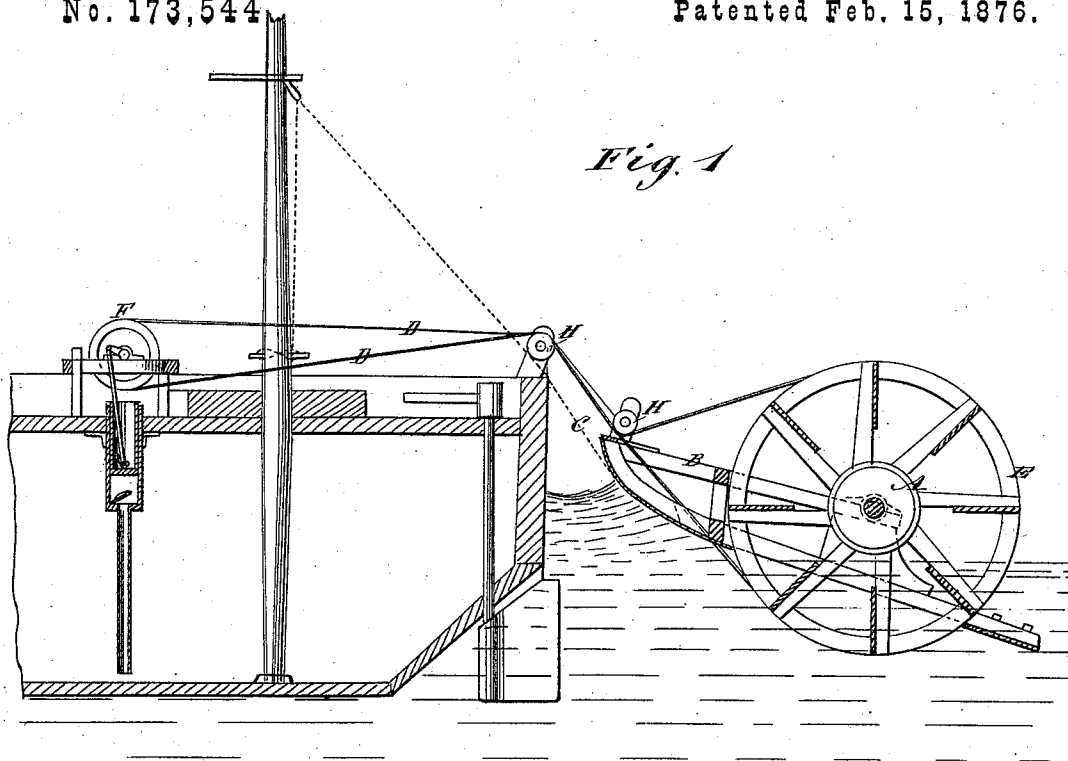
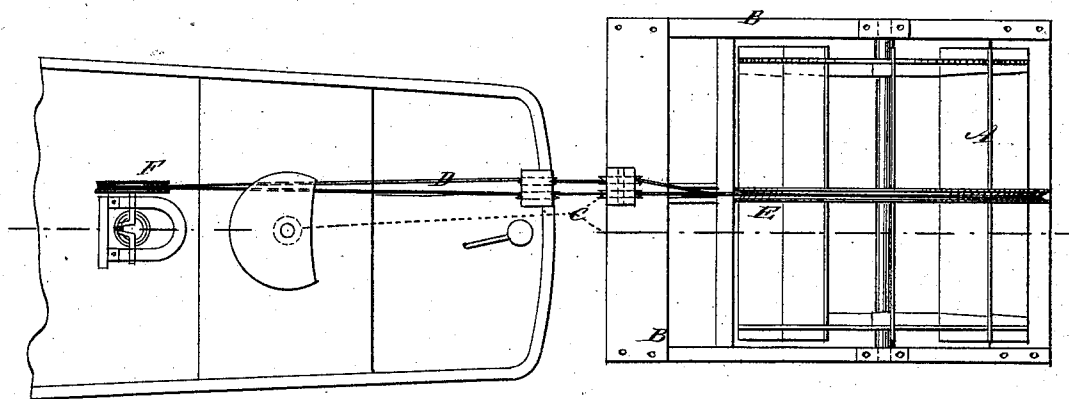


Fig. 1



WITNESSES:

C. Neveu
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INVENTOR:

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UNITED STATES PATENT OFFICE.

CHARLES HUXFORD, OF EDGARTOWN, MASSACHUSETTS.

IMPROVEMENT IN APPARATUS FOR PUMPING SHIPS, &c.

Specification forming part of Letters Patent No. **173,544**, dated February 15, 1876; application filed December 4, 1875.

To all whom it may concern :

Be it known that I, CHARLES HUXFORD, of Edgartown, Martha's Vineyard, in the county of Dukes and State of Massachusetts, have invented a new and Improved Power for Ships' Pumps, of which the following is a specification :

My invention consists of a kind of paddle-wheel mounted on a float and dragging astern of the ship, so as to be revolved by the water, and having an endless rope fitted around it, and around a pulley on the ship, in such manner that the rope is made to work the pump, and thus save the working of it by hand in ships not having steam-power.

Figure 1 is a longitudinal sectional elevation of a portion of a ship and the said power apparatus, and Fig. 2 is a plan view.

Similar letters of reference indicate corresponding parts.

A represents the paddle-wheel, and B a float, on which it is to be carried on the surface of the water suitably for being revolved as the float is towed along by the ship, say by a cable, C. D represents the endless rope

working over the wheel at the middle, where it has a groove, E, therefor; and F, the pulley on the ship, to be turned by the rope for working the pump. H represents guide-pulleys for conducting the rope from the wheel to the pulley.

The apparatus can be lifted on deck and dropped overboard readily, as wanted, by the ship's tackle. It may also be employed for working other machinery on the ship, if preferred.

I am aware that it is not broadly new to operate a ship's pump by a wheel located on a float; but

What I claim is—

The combination, with wheel A, supported on a float, B, and towed by the ship's cable C, of an endless rope, D, working in a groove, E, of wheel, over a float-pulley, H, and over a ship's pulley, F, all arranged as and for the purpose specified.

CHAS. HUXFORD.

Witnesses:

T. B. MOSHER,
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