

W. H. RICHARDSON.

Devices for Pitching Boats.

No. 135,490.

Patented Feb. 4, 1873.

Fig. 1.

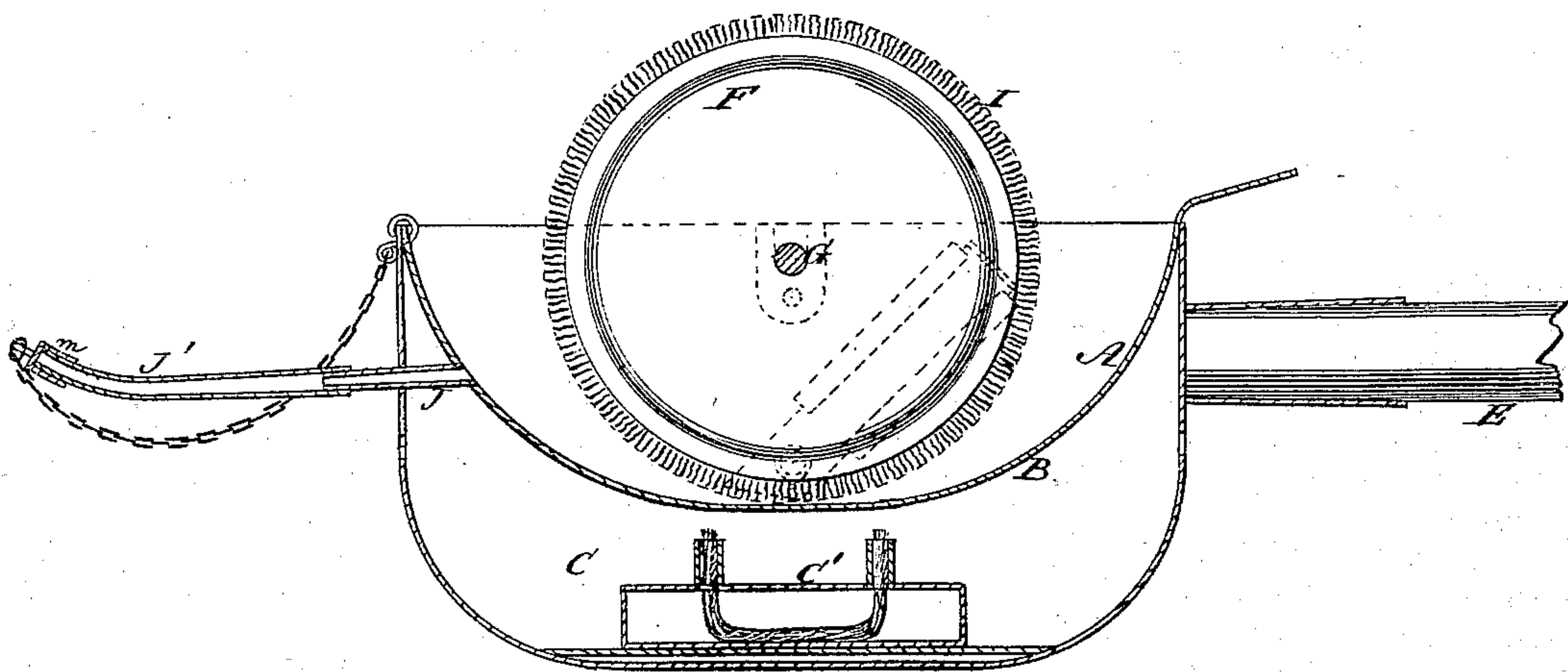
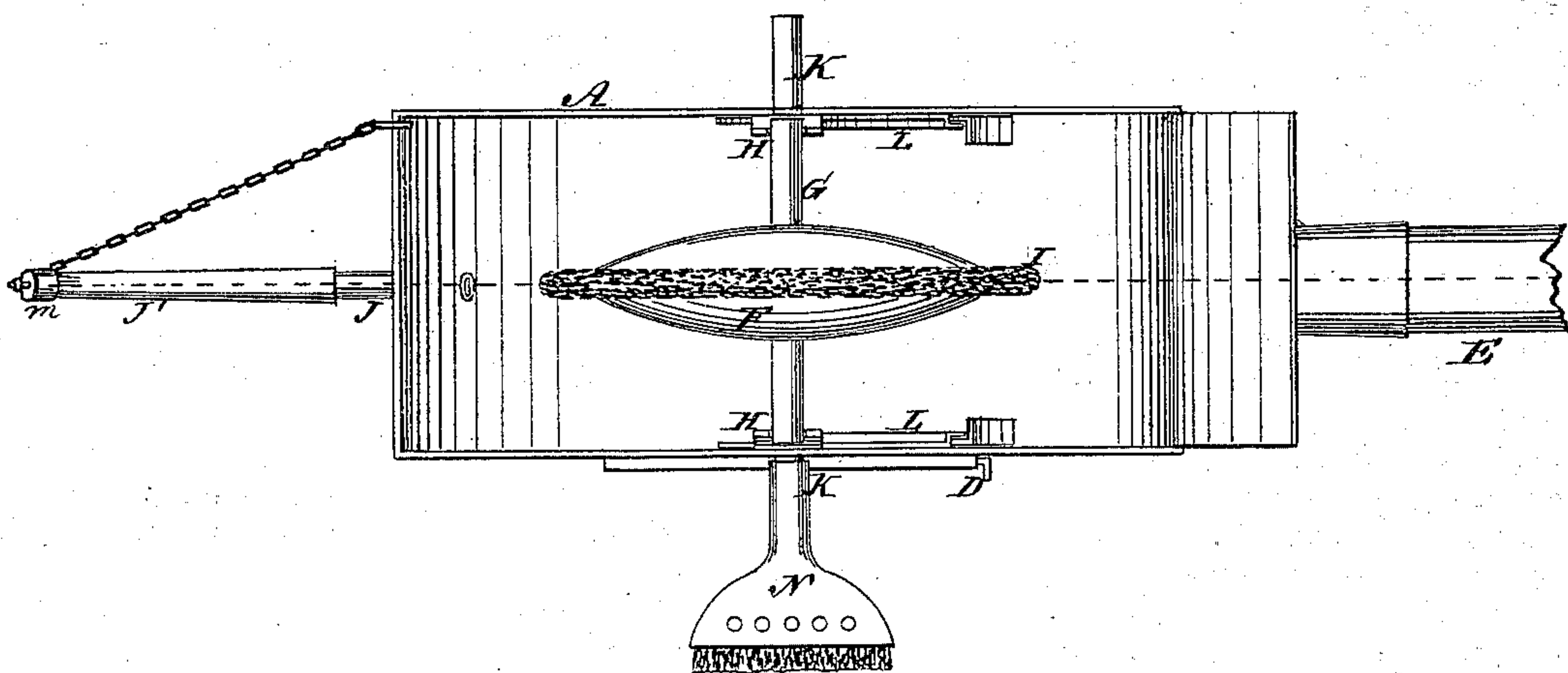


Fig. 2.



Witnesses:

E. Wolff.  
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# UNITED STATES PATENT OFFICE.

WILLIAM H. RICHARDSON, OF STILLWATER, MINNESOTA.

## IMPROVEMENT IN DEVICES FOR PITCHING BOATS.

Specification forming part of Letters Patent No. 135,490, dated February 4, 1873.

*To all whom it may concern:*

Be it known that I, WILLIAM H. RICHARDSON, of Stillwater, in the county of Washington and State of Minnesota, have invented a new and useful Improvement in Apparatus for Pitching Boats, of which the following is a specification:

The object of this invention is to provide efficient and convenient means for expeditiously pitching the seams of boats and marine vessels of all kinds, also the seams of floors or platforms when the same are to be made water-tight; and it consists in an apparatus or machine with a revolving wheel and lamp-chamber therein, and hollow brush, the construction and manner of operation being hereinafter more fully described.

In the accompanying drawing, Figure 1 is a vertical longitudinal section taken on the line *xx* of Fig. 2. Fig. 2 is a top view.

Similar letters of reference indicate corresponding parts.

A is a rectangular-shaped vessel, open at the top, preferably with a circular bottom, B. Beneath the bottom is the lamp-chamber C. C' is the lamp. D is a sliding shutter on the side of the lamp-chamber. This shutter closes the aperture through which the lamp is introduced. E is the handle. F is a wheel which revolves in the vessel A by means of the shaft G and journal-boxes H H. This wheel is made in two parts, so that a rim of cotton, I, is confined between the parts and forms its periphery. The diameter of the wheel is such that it runs near the bottom of the vessel. The pitch is kept in a liquid state in the vessel A by means of the lamp in the chamber C. J is a discharge-tube or spout in two parts,

J' being curved and removable. On each side is a discharge-tube, K, which may be closed by the slides L on the inside of the vessel. *m* is a cap, by which the front tube J is closed. N is a brush with a hollow handle or stem. The socket of this brush fits either of the three tubes mentioned. When either of the side tubes are used the front tube J is closed by the cap after taking off the curved portion J'.

In using the article it is held by the handle and pushed along with the brush N in the seam. If it is the deck of the vessel, the brush is attached to the curved spout or tube J'. If the side of the boat is to be pitched, the spout J is closed, (J' being removed,) and the brush is attached to one of the side tubes K, the other side tube being closed by the slide L. If it is the bottom of the vessel, then the wheel F is employed, and the machine is run along with the cotton-rim I in the seam while the wheel revolves in the pitch and carries the pitch to the seam.

It will be seen that the machine is adapted to all parts of the vessel, and that the operation of pitching a vessel may be performed with ease and dispatch.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The brush N, having hollow perforated handle, combined with discharge-tubes J K K of pitch-vessel A, as and for the purpose described.

WILLIAM H. RICHARDSON.

Witnesses:

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