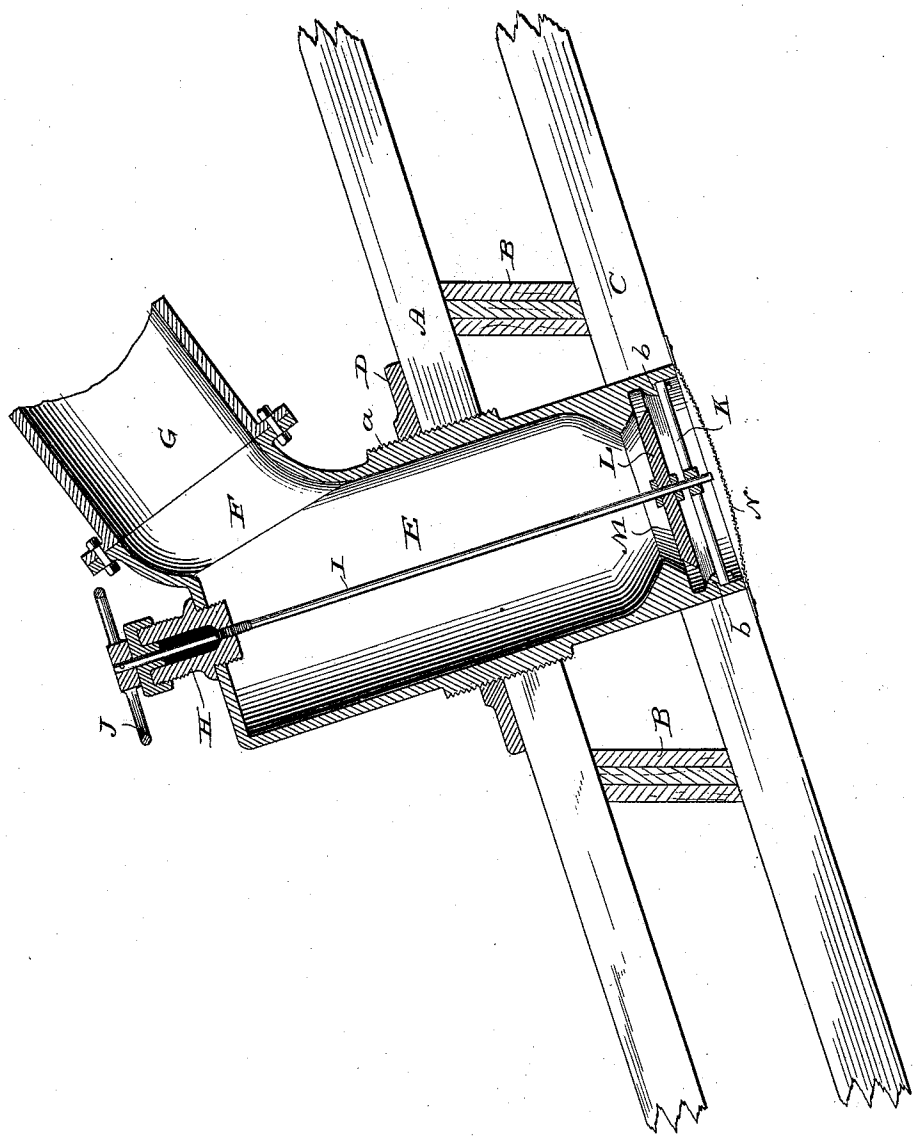
(No Model.)

F. C. STARKE.

SEA COCK.

No. 376,270. Patented Jan. 10, 1888.



Witnesses

Geo. W. Young,

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UNITED STATES PATENT OFFICE.

FRED. C. STARKE, OF MILWAUKEE, WISCONSIN.

SEA-COCK.

SPECIFICATION forming part of Letters Patent No. 376,270, dated January 10, 1888.

Application filed July 16, 1887. Serial No. 244,474. (No model.)

To all whom it may concern:

Be it known that I, FRED. C. STARKE, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Sea-Cocks; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to sea-cocks; and it consists in certain peculiarities of construction and combination of parts, to be hereinafter described with reference to the accompanying drawing, and subsequently claimed.

The drawing represents a transverse vertical section of a sea-cock constructed according to my invention and in position for use.

Referring by letter to the drawing, A represents the ceiling, B B the frame-timbers, and C an outside plank, of a steam-vessel. Secured in any suitable manner to the ceiling A is a screw-threaded ring, D, that engages screw-threads *a* on a cylinder, E, the latter being adjusted to have its lower end enter a suitable opening in the outside plank, C, and come flush with the exterior thereof.

The upper end of the cylinder E is provided with a flanged lateral extension, F, and to this extension is bolted a flanged tube, G, the latter serving to connect said cylinder with the feed-pump of an engine.

The top of the cylinder E is provided with an opening in which is fitted a bearing, H, for a screw-threaded stem, I, the latter having its upper end provided with a hand-wheel, J, and its lower end passed through a transverse guide-bar, K, bolted to projections *b* upon the inside of said cylinder. Arranged on the stem I, near its lower end and above the guide-bar K, is a valve, L, and the cylinder E, at a point between the inner and outer faces of the outside plank, C, is provided with a seat, M, for said valve.

As shown in the drawing, the valve L is open, thus allowing water to be drawn up into the cylinder and through the tube connected thereto. By operating the hand-wheel J the valve is drawn up snug in its seat M and the water cut off. In order to prevent drift-wood and other thick substance from entering the cylinder, I prefer to protect the lower end of the latter with a screen, N, of wire-gauze or other foraminous material.

Heretofore it has been usual to place the valve of sea-cocks in the lateral extension F of the cylinder E, and consequently there would always be water in said cylinder above the outside plank. In winter, when a vessel provided with a sea-cock of the latter description is laid up, the water in said cock is liable to freeze and by its expansion burst the cylinder, thus springing a leak that will in time cause said vessel to sink. In my invention, when the valve is closed, the water that remains in the cylinder above said valve can be readily sponged out or otherwise removed, and consequently there is no danger from freezing, there being no water above the outside plank.

Another advantage of my invention lies in the fact that should the stem be broken the pressure of the water will automatically close the valve.

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

1. A sea-cock comprising a cylinder fitted to the ceiling of a vessel and having an open lower end passed through an outside plank of the vessel, suitable means for connecting the cylinder with a pump, and a valve located in said cylinder at a point between the inner and outer faces of the plank, substantially as set forth.

2. A sea-cock comprising a cylinder fitted to the ceiling of a vessel and having an open lower end passed through an outside plank of the vessel, suitable means for connecting this cylinder with a pump, a valve located in the cylinder at a point between the inner and outer faces of the plank, and suitable means for opening and closing the valve from above said cylinder, substantially as set forth.

3. A sea-cock comprising a cylinder fitted to the ceiling of a vessel and having an open lower end passed through an outside plank of the vessel, suitable means for connecting this cylinder with a pump, a valve located in the cylinder at a point between the inner and outer faces of the plank, and provided with a screw-threaded stem, and a screw-threaded bearing for the valve-stem arranged

on the closed upper end of said cylinder, substantially as set forth.

4. The ceiling A, outside plank, B, and ring D, arranged on said ceiling, in combination with the cylinder E, screw-threaded to the ring and having an open lower end passed through the outside plank, the pump-connection F G, the bearing H, arranged on the closed upper end of the cylinder, the guide-bar K, and valve-seat M, located in the lower end of said cylinder, the valve L, having its stem I screw-threaded in the said bearing, and the hand-wheel J, fast on said stem, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

FRED. C. STARKE.

Witnesses:

H. G. UNDERWOOD,

N. E. OLIPHANT.