

(No Model.)

J. B. COREY.

LEAK STOPPER FOR VESSELS.

No. 312,613.

Patented Feb. 24, 1885.

Fig. 1.

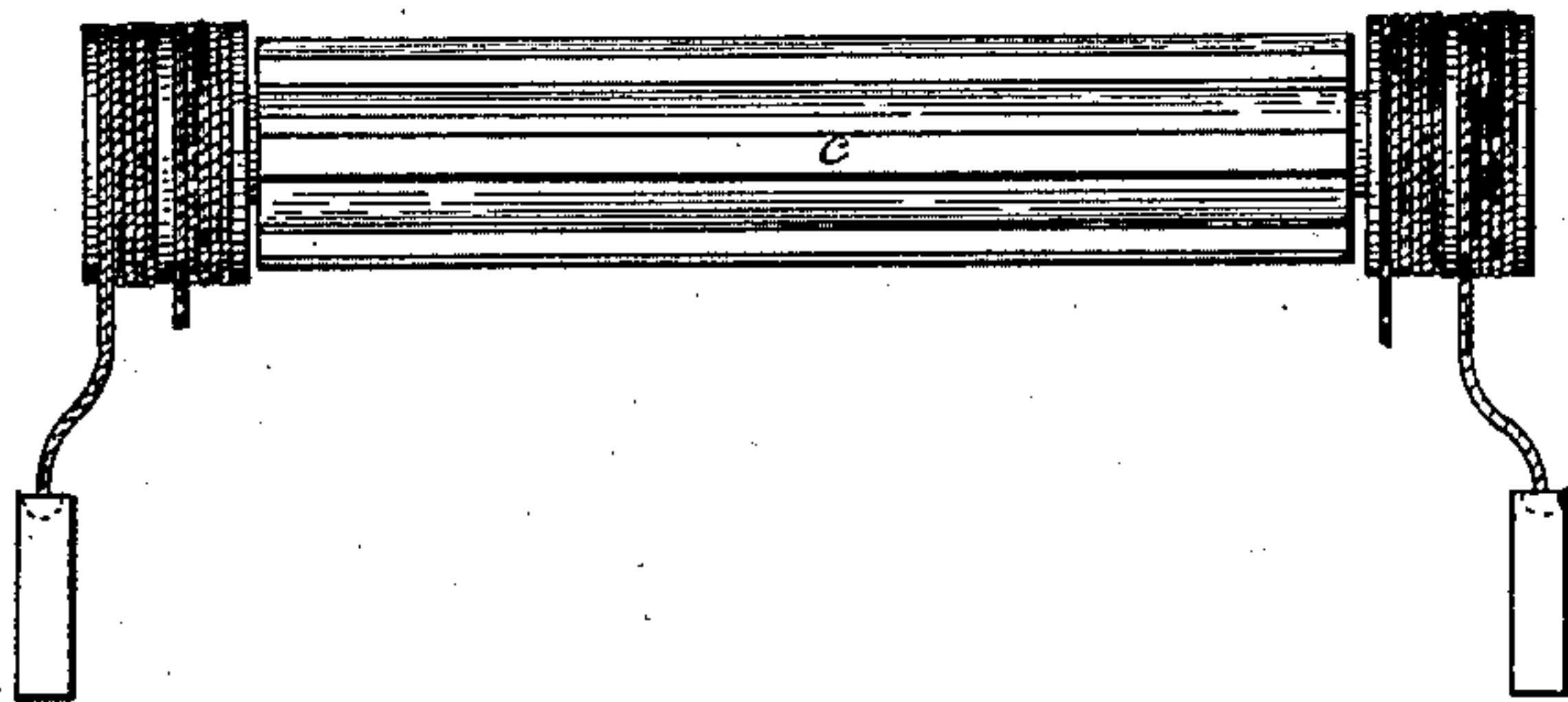


Fig. 2.

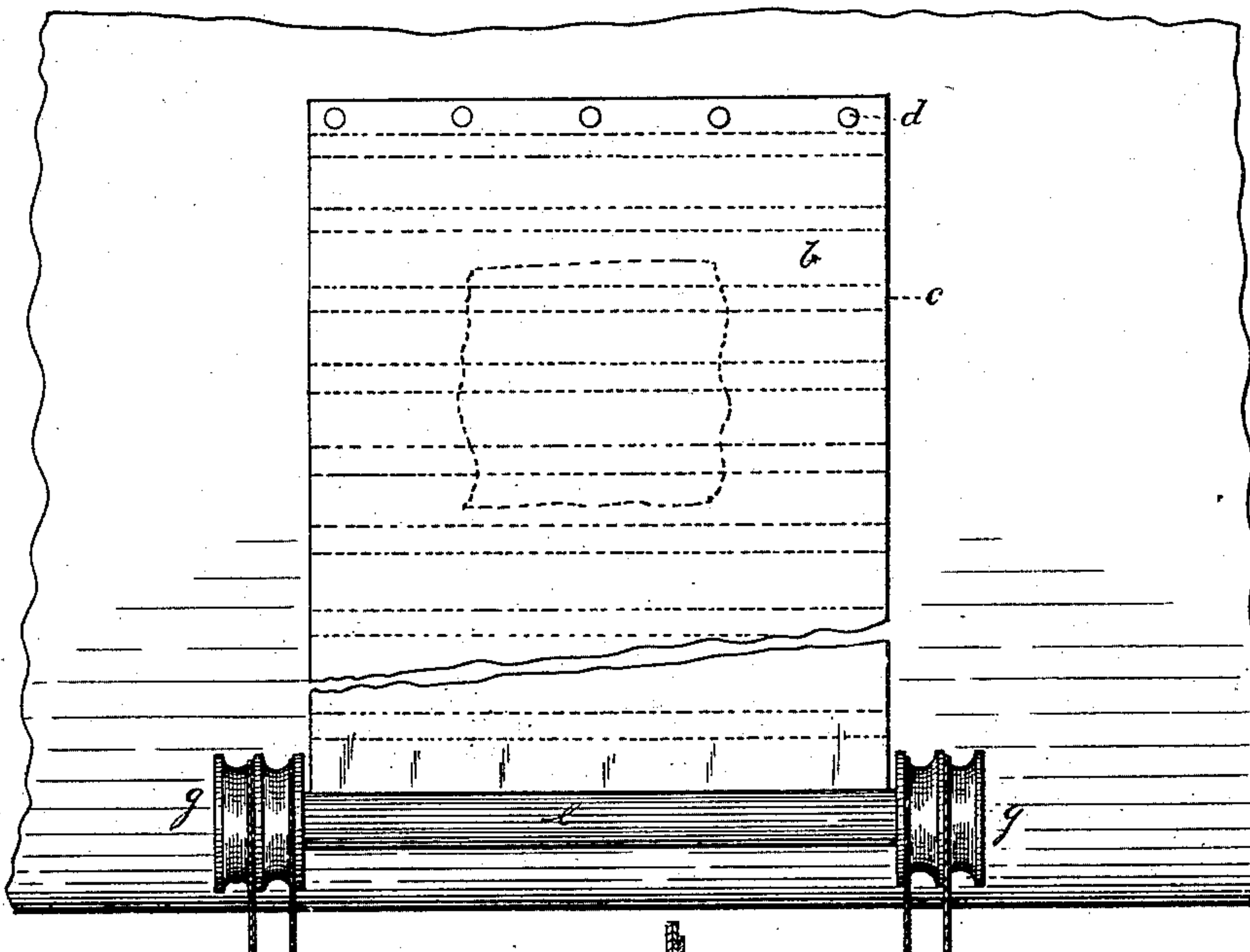
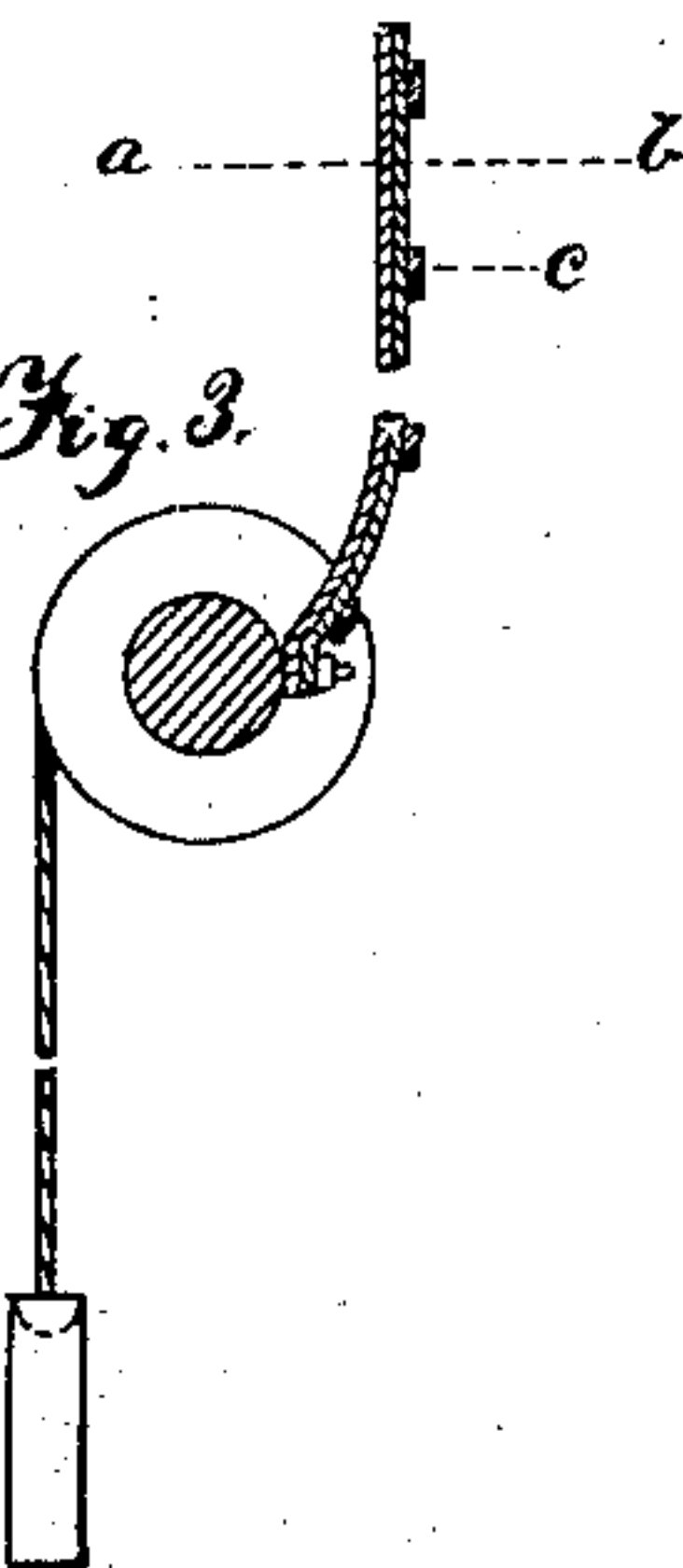


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

JAMES B. COREY, OF NORTH BRADDOCK, PENNSYLVANIA.

LEAK-STOPPER FOR VESSELS.

SPECIFICATION forming part of Letters Patent No. 312,613, dated February 24, 1885.

Application filed June 13, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. COREY, of North Braddock, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Leak-Stoppers for Vessels; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to an improvement in leak-stoppers for vessels; and it consists in the construction and arrangement of devices, as hereinafter set forth.

I will now describe my invention so that others skilled in the art may manufacture and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a view of my improved tarpaulin rolled up on the roller and ready for use. Fig. 2 is a view showing the same unrolled over the side of the vessel, and Fig. 3 is a vertical cross-section showing the construction.

Like letters of reference indicate like parts wherever they occur.

I employ in my improvement a sheet of thin metal—such as iron or wire-cloth—having the inner or outer face covered by canvas, and ribs of iron or other suitable material attached to the sheet at suitable intervals, and extending laterally across the same, the sheet so formed being rolled on a suitable roller, which roller may have connected thereto weights for the purpose of unrolling the sheet against the sides and bottom of the vessel.

In the drawings, *a* represents the canvas face of the sheet; *b*, the sheet of thin metal or wire-cloth; and *c*, the ribs or bars of metal, which are riveted or otherwise secured to the metal sheet *b*, to which the canvas sheet *a* is secured by any suitable means. At one end of the sheet so formed are eyes or rings *d*, by means of which the sheet may be secured to the side or rail of the vessel, while the other end of the sheet is secured to a roller, *e*, provided at its ends with the weights *f*, secured to the roller by chains or lines on the wheels *g*.

Instead of the weights *f*, the roller *e* may be otherwise weighted.

Where wire-cloth is employed instead of the sheet metal, the ribs *c* may be dispensed with. They may also be dispensed with in connection with the sheet-iron; but as they add strength and weight to the sheet and prevent it from buckling they are preferably employed.

The operation is as follows: These sheets being wound on the roller as shown in Fig. 1, are portable, or may be secured to the bulwarks along the sides of the vessel. In case of an accident, or when it is desired to close an opening in the sides or bottom of the vessel, by casting loose the roller *e* and dropping it over the side of the vessel, the roller unwinding, the sheet is brought over the opening, which is closed thereby, owing to the pressure of the water, until the damage is repaired; or, where it is irreparable, sufficient time is afforded the crew and passengers to escape.

The advantages of my invention are that the covering, being supported by the sheet metal or bars, or by both, or by the wire cloth or netting or other flexible frame-work, is prevented from entering the opening in the hull of the vessel under the force of the inflowing water, and at the same time it is capable of being rolled on a roller, so as to be easily portable and occupy but a small portion of space; and, also, it is easily and rapidly applied when required.

A simpler form of my improved device consists in a sheet of canvas having secured thereto parallel strips or bars of wood or metal placed closely enough together to afford a support to the canvas.

Although I have used the word "canvas" in this specification, I do not desire to limit myself to this particular fabric, as other and equivalent materials may be employed.

My improvement may be applied to all kinds of boats, ships, and coal and other barges.

I am aware that it is not new to stop leaks in vessels by bags capable of being inflated, sails, tarpaulins, and matting, drawing them over the leak or aperture by lines passing under the vessel; and I do not desire to claim the same.

Having thus described my invention, what

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

5 In devices for saving leaking vessels, a sheet
composed of a layer of canvas or other textile
fabric, and a layer composed of a metal sheet
or netting supported and strengthened by lat-
eral metal battens, substantially as and for the
purpose specified.

In testimony whereof I have hereunto set
my hand this 28th day of May, A. D. 1884.

JAMES B. COREY.

Witnesses:

JNO. K. SMITH,
JAMES H. PORTE.