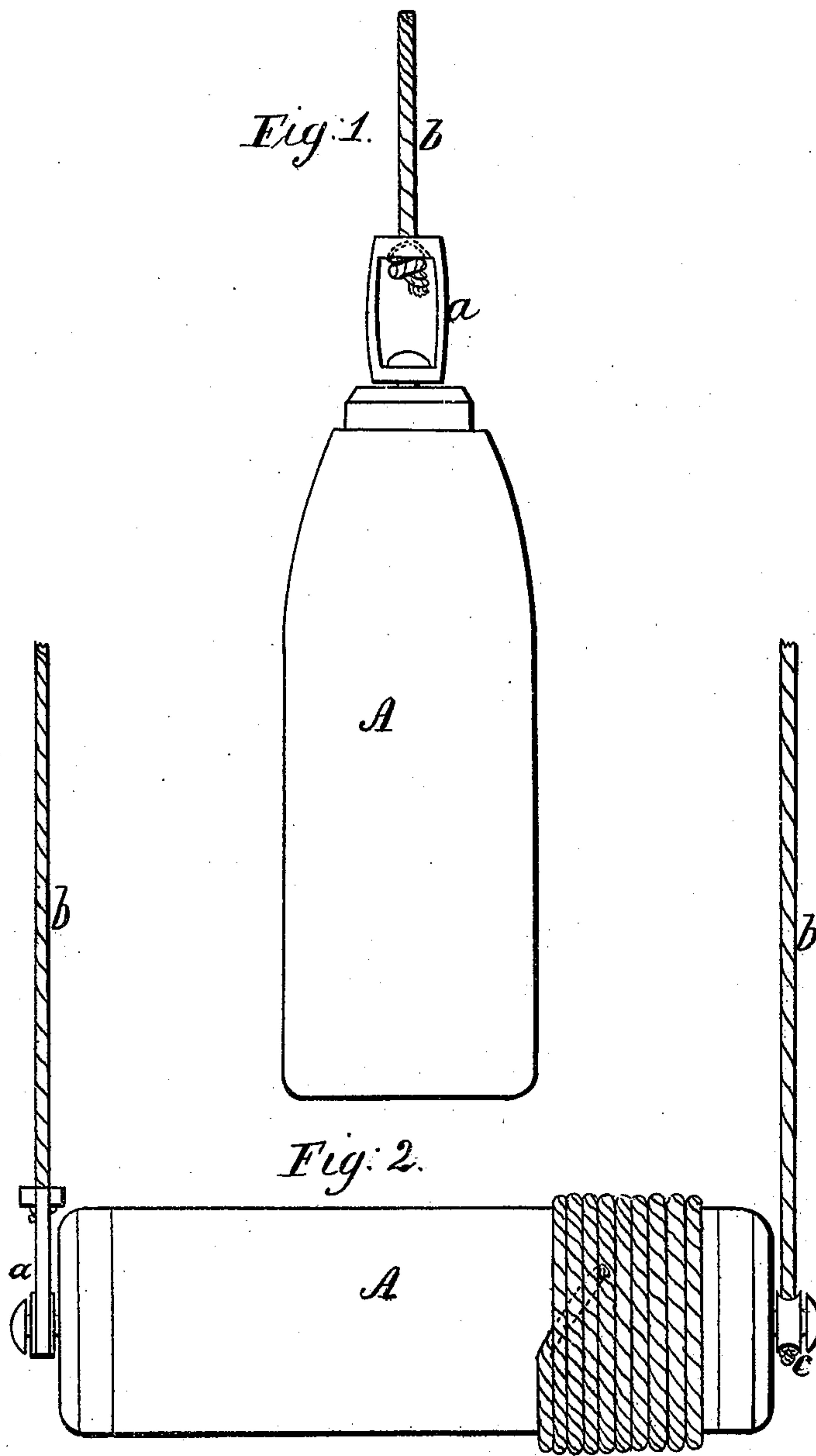


W. Sniffin.

Ship Fender.

N<sup>o</sup> 68,251.

Patented Aug. 27, 1867.



Witnesses

Theo. Froese  
Wm. Freurn

Inventor

Wm. Sniffin  
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# United States Patent Office.

WILLIAM SNIFFIN, OF SING SING, NEW YORK.

*Letters Patent No. 68,251, dated August 27, 1867.*

## IMPROVED SWIVEL SHIP-FENDER.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM SNIFFIN, of Sing Sing, in the county of Westchester, and State of New York, have invented a new and improved Swivel Ship-Fender; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents my improved swivel ship-fender, suspended at one end to hang vertically over the side of a vessel to fend her off from a wharf, or other vessel.

Figure 2 represents the same suspended at both ends, to hang horizontally for the same purpose.

Similar letters of reference indicate corresponding parts.

The object of this improvement is to provide a fender for vessels which shall have a rotary motion by means of swivels or rollers at the end or ends to which the rope for suspending it is attached.

The sides of vessels are much defaced by having the paint chafed and worn off by the ordinary flat and rigid ship-fenders, which are rubbed against the vessel with every motion caused by the waves or the rise and fall of the tides as they lie beside each other, or alongside of a wharf. My improved swivel-fender rotates with the motion of a vessel in such a situation, and as it rolls over the surface does no injury whatever to the paint.

A represents a long, round wooden ship-fender to be suspended vertically over the side of a vessel by a swivel, *a*, at one end, with the rope *b* attached, as shown in fig. 1, or horizontally by swivels at both ends, with the ropes *b b* attached, as shown in fig. 2. Instead of attaching the fender to the rope with a swivel, a thimble or roller, *c*, may be employed for the purpose when the fender is used horizontally, as shown in fig. 2, but I prefer the swivel joint in all cases.

It will be seen that when the fender is suspended between a vessel and the wharf, or another vessel, it will turn on the swivel or swivel joints by which it is attached to the rope or ropes, and thus roll over the surface, without rubbing or chafing the paint, with the motion of the vessel caused by the waves or the rise and fall of the tide. A further protection for yachts and pleasure-boats may be adopted by overlaying the fender with a coil of rope, as shown in fig. 2.

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

The combination of the swivel *a* with the fender A, substantially as and for the purpose herein shown and described.

WILLIAM SNIFFIN.

Witnesses:

WM. F. McNAMARA,  
ALEX. F. ROBERTS.