

A. A. QUINN.
 PROTECTING DEVICE FOR VESSELS.
 APPLICATION FILED JULY 9, 1912.

1,045,081.

Patented Nov. 19, 1912.

FIG. 1

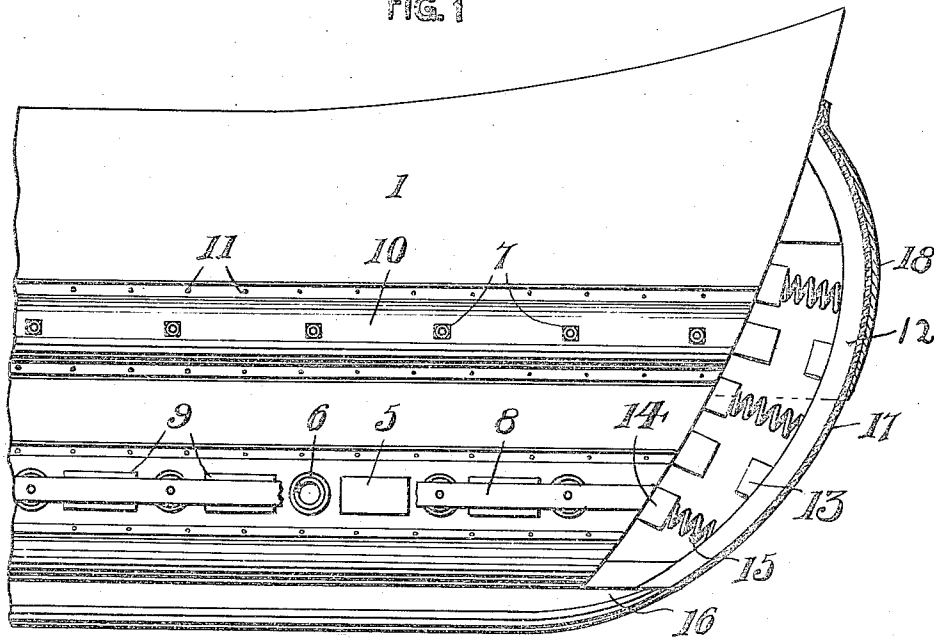


FIG. 2

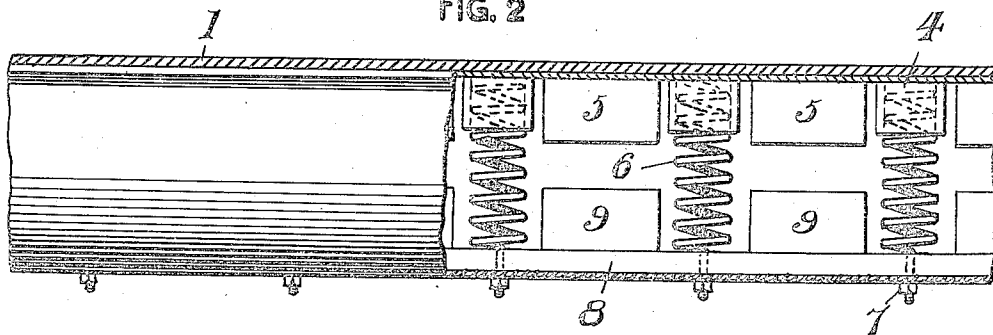
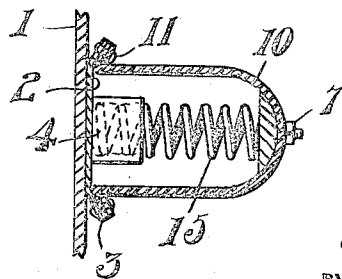


FIG. 3



WITNESSES

J. B. Hoffman,
W. H. Holcomb

INVENTOR

A. A. Quinn

BY

A. C. Everett

ATTORNEYS

UNITED STATES PATENT OFFICE.

AMBROSE A. QUINN, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR OF FORTY-FIVE ONE-HUNDREDTHS TO SAMUEL B. BOOTHE, OF PITTSBURGH, PENNSYLVANIA.

PROTECTING DEVICE FOR VESSELS.

1,045,081.

Specification of Letters Patent.

Patented Nov. 19, 1912.

Application filed July 9, 1912. Serial No. 708,414.

To all whom it may concern:

Be it known that I, AMBROSE A. QUINN, a citizen of the United States of America, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Protecting Devices for Vessels, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a protecting device for vessels, and the primary object of my invention is to provide the sides of a vessel with yieldable protecting devices that will prevent the vessels from being injured when contacting with ice-bergs, wharves, floating debris and other matter.

Another object of this invention is to furnish the hull of a vessel with exterior cushions that can be easily installed and are capable of withstanding the forces of nature to which they are subjected, particularly in a high sea.

A further object of this invention is to provide the sides and ends of a vessel with protecting devices that are simple in construction, and of such design as not to retard the speed of a vessel.

With the above and other objects in view, the invention resides in a novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein:—

Figure 1 is a side elevation of a portion of a vessel provided with protecting devices. Fig. 2 is an enlarged plan of a protecting device, partly broken away and partly in section, and Fig. 3 is a cross sectional view of the same.

The drawing shows a vessel 1 having the sides thereof provided with longitudinal fastening plates 2 that have the longitudinal edges thereof bent at an angle, as at 3. The fastening plates 2 are riveted or otherwise connected to the sides of the vessel 1 and said fastening plates are provided with equally spaced sockets 4 and equally spaced buffers 5, said buffers being arranged between the sockets 4 and preferably made of

rubber. Arranged in the sockets 4 are the inner convolutions of coiled compression springs 6, said springs having the outer convolutions thereof connected, as at 7 to a strip 8. The inner side of the strip 8 is provided with yieldable buffers 9 that are disposed opposite the buffers 5. The strip 8 and the springs and buffers are inclosed by a yieldable casing 10, preferably made of rubber, said casing being attached to the strip 8 by the same fastening means as the springs 6. The longitudinal edges of the casing 10 are riveted or otherwise connected, as at 11 to the longitudinal angle edges 3 of the fastening plates 2. The casing 10 excludes floating debris and other matter that in all probability would impair the action of the springs 6.

The ends of the vessel 1 are provided with frames 12 and interposed between said frames and the ends of the vessel are buffers 13, sockets 14 and coiled compression springs 15, these elements being similar to the elements 5, 6 and 9. The frames 12 correspond with the strip 8 and both are preferably made of leather.

The keel of the vessel 1 is projected below the frames 12, as at 16 and said frames are inclosed in a yieldable casing 17, having the same function as the casing 10. The top of the casing 17 is inclosed by a metallic shield 18.

From the foregoing it will be observed that I have devised a vessel protecting device that will ultimately save life and property, particularly in connection with ocean going vessels.

While in the drawing there is illustrated a preferred embodiment of my invention, it is to be understood that the structural elements are susceptible to such variations and modifications as fall within the scope of the appended claims.

What I claim is:—

1. In a protecting device, sockets carried by the outer sides of a vessel, springs having the inner ends thereof mounted in said sockets, a strip connecting the outer ends of said springs, buffers carried by said strip, buffers carried by the vessel and confronting the buffers of said strip, and a yieldable

casing inclosing said strip, springs, sockets and buffers.

2. The combination with a vessel, of fastening plates carried by the outer sides thereof, a strip spaced apart from said fastening plates, buffers carried by said strip, buffers carried by said fastening plates and confronting the buffers of said strip, and

coiled compression springs interposed between said strip and said fastening plates. 10

In testimony whereof I affix my signature in the presence of two witnesses.

AMBROSE A. QUINN.

Witnesses:

SAMUEL B. BOOTHE,
MAX H. SROLOVITZ.
