B. PUSKÁS & A. TARIAN.

BUFFER FOR VESSELS.

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1,102,076.

Patented June 30, 1914.

Fig. 1.

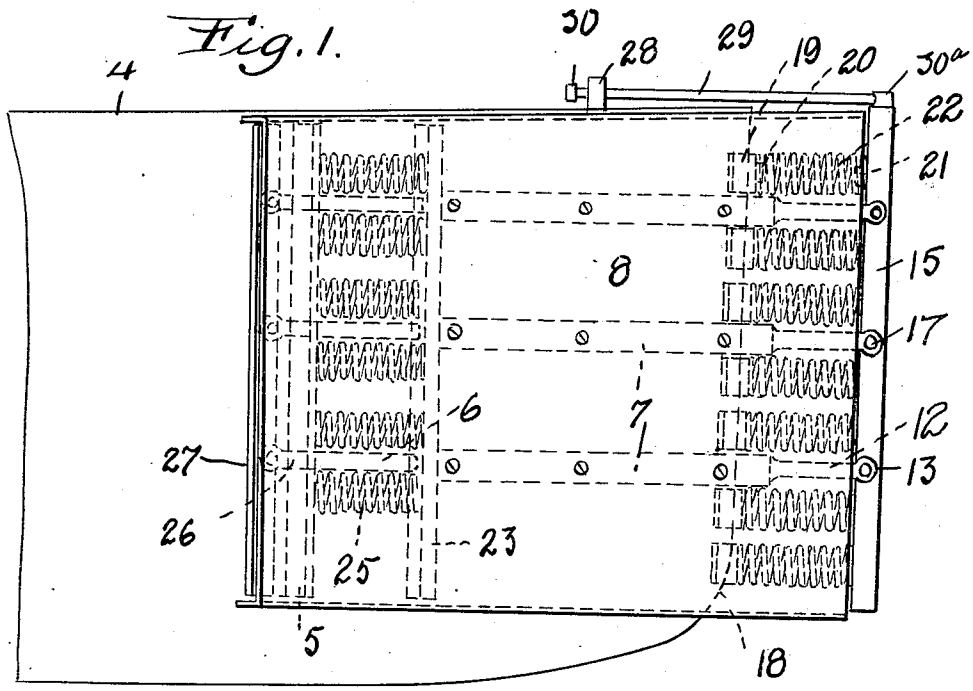


Fig. 2.

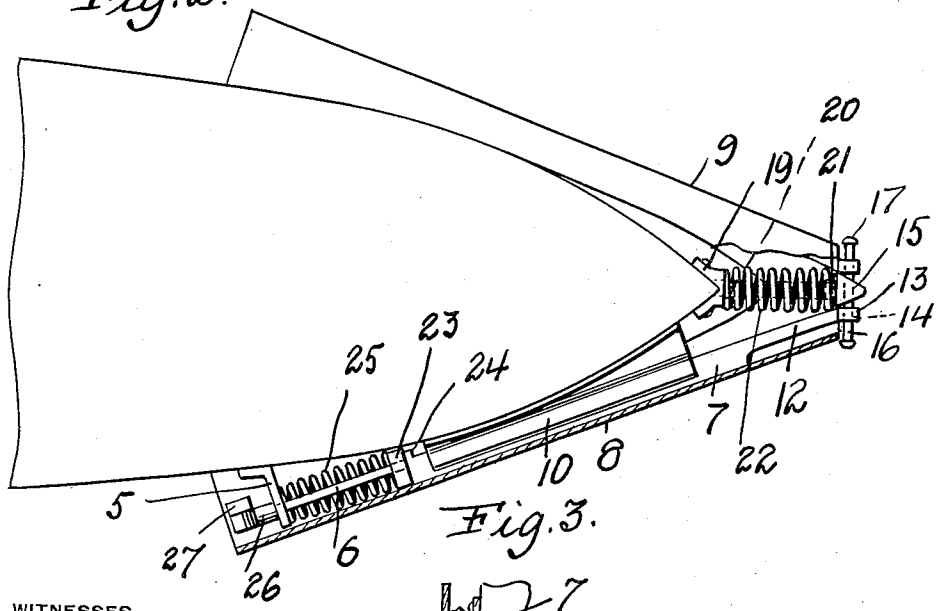
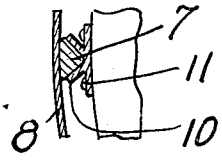


Fig. 3.



WITNESSES

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BUFFER FOR VESSELS.

1,102,076. Specification of Letters Patent. Patented June 30, 1914.

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To all whom it may concern:

Be it known that we, BÁLINT PUSKÁS and ANDY TARIAN, subjects of the King of Hungary, residing at Windber, in the county of Somerset and State of Pennsylvania, have invented certain new and useful Improvements in Buffers for Vessels, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to buffers for vessels, and has for its object to provide means, in a manner as hereinafter set forth, capable of being secured to the bow of a vessel and setting up a buffing action when the vessel strikes an obstruction whereby shock is reduced to a minimum and the bow of the vessel protected.

Further objects of the invention are to provide a buffer for the purpose set forth, which is simple in its construction and arrangement, strong, durable, readily set up and inexpensive.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:—Figure 1 is a side elevation of a buffer in accordance with this invention, showing the adaptation thereof in connection with the bow of a vessel. Fig. 2 is a top plan view partly in section and partly broken away of a buffer in accordance with this invention showing the adaptation thereof in connection with the bow of a vessel, and Fig. 3 is a sectional detail illustrating a guide.

Referring to the drawings in detail, 4 denotes the bow of a vessel which has attached thereto a buffer in accordance with this invention, the buffer projecting forwardly from the bow and rearwardly upon the sides of the hull of the vessel. Secured to the sides of the hull of the vessel at the bow thereof is a vertically disposed bracket 5, which is provided with openings for the passage of the reduced portion 6 of guide members 7.

The reference characters 8 and 9 denote a pair of inclined shields and which project forwardly of the bow 4, are arranged at the sides of the hull and each of which has formed integral with its inner face a series of guide members 7. The reduced portion 6 of the guide members 7 are spaced from the inner face of the said shields and the said guide members 7 are triangular in cross section and travel in V-shaped guides 10 secured by holdfast devices 11, to the sides of the hull of the vessel. The guide members 7 project forwardly from the bow and have their forward ends reduced as at 12 and spaced from the inner faces of the shields 9 and the said reduced portions 12, have their forward termini enlarged as at 13 and formed with openings 14. The enlarged termini of the reduced portions 12 of the guide members 7 carried by the shields 8, are arranged at each side of a vertically disposed bar 15 which is triangular in plan and the enlarged termini 13 of the reduced portions 12 of the guides 7 of the shields 9 are arranged at the other side of the rod 13 and extending through said enlarged termini 13 and the bar 15 are coupling members 16 which are headed at each end as at 17 whereby the bar 15 and the guide members 7 are connected together.

Secured to the prow of the vessel is a vertically extending row of brackets 19, each of which is provided with a projecting lug 20 which opposes a forwardly projecting lug 21 of the rear face of the bar 15. Surrounding the lugs 20 are the inner ends of coiled springs 22 and surrounding the lugs 21 are the forward ends of the coiled springs 22 and the function of said springs is to normally maintain the buffer extended with respect to the bow of the vessel.

Loosely mounted upon the reduced portion 6 of the guide 7 carried by the shield 8 is a vertically disposed bar 23 and which abuts against the shoulder 24 forming a part of the said guide 7. The guides 7 carried by the shields 9 have loosely mounted on their reduced portion 6 a vertically disposed bar 23. Mounted upon the reduced portion 6 and interposed between the brackets 5 and bars 23 are coiled springs which assist in maintaining the buffer projected with respect to the bow 4. The reduced portion 6 of the guides 7 at each side of the vessel have their rear termini provided with heads 26 which are connected together

by a vertically disposed upright 27. Mounted upon the bow 4 is a bracket 28 through which extends a bar 29 having its rear end provided with a head 30 and its forward end connected to the top of the bar 15 as at 30^a.

What we claim is:—

1. A buffer comprising a pair of shields, a spring controlled vertically disposed bar adapted to be arranged forwardly of the prow of a vessel, guides adapted to be secured to the sides of the vessel at the bow thereof, spring controlled guide members integral with said shields, sliding in said guides and having their forward ends connected to said bar, and means adapted to be carried by the sides of the vessel and engaging with the guide members for limiting the forward movement thereof.

2. A buffer for vessels comprising a spring controlled vertically disposed bar arranged forwardly of the prow of the vessel, oppositely disposed inclined spring controlled shields loosely connected at their forward ends to said bar, and means for limiting the forward movements of said shields.

3. A buffer for vessels comprising a vertically disposed spring controlled bar adapted to be arranged forwardly of the prow of the vessel, forwardly projecting inclined shields adapted to be arranged at the sides of the vessel, spring controlled guiding means for said shields connected to said bar, and means for slidably connecting said guiding means to the sides of the vessel and for further limiting the forward movement of said guiding means.

In testimony whereof we affix our signatures in the presence of two witnesses.

BÁLINT PUSKÁS.
ANDY TARIAN.

Witnesses:
PAUL SABO,
E. C. MAXWELL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."