J. E. Jones.

Elastic Coupling.

No. 85,388. Patented Dec. 29, 1868.

Fig. 1.

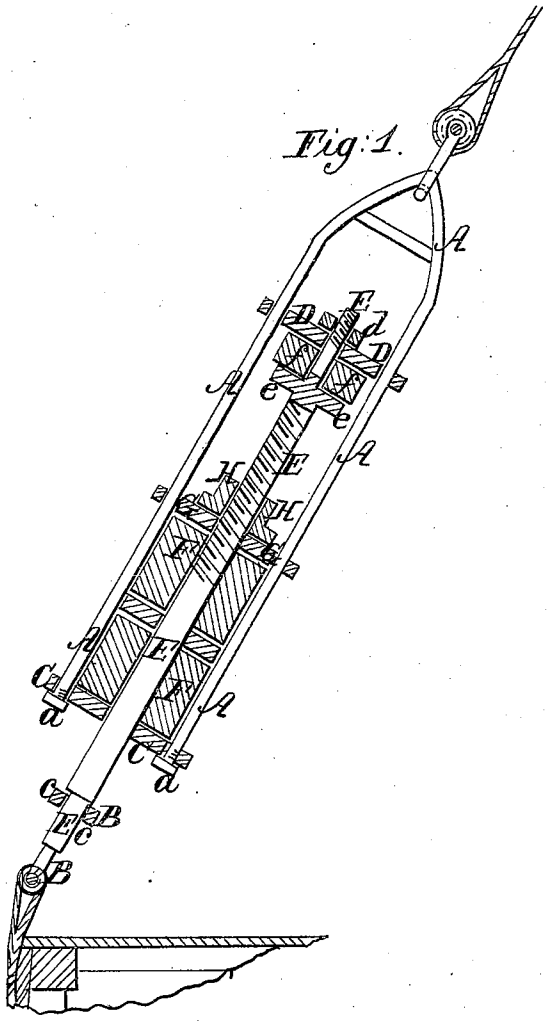
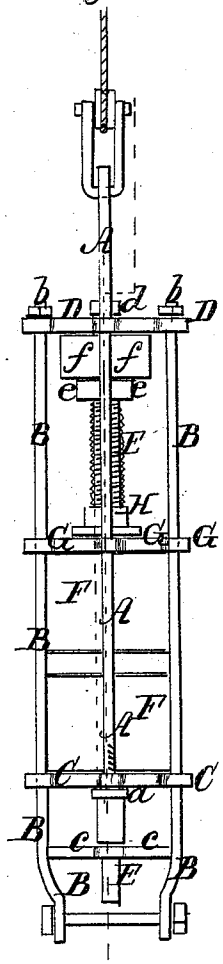


Fig. 2.



Witnesses

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J. E. JONES, OF WIRETOWN, NEW JERSEY.

Letters Patent No. 85,388, *dated December* 29, 1868.

IMPROVEMENT IN ELASTIC LANYARDS.

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, J. E. JONES, of Wiretown, in the county of Ocean, and State of New Jersey, have invented a new and improved Elastic Lanyard; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

Figure 1 represents a vertical longitudinal section of my improved elastic lanyard.

Figure 2 is a front view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement in elastic lanyards, by which the stays of a ship's rigging are connected with the chain-plate, or some fixed part of the vessel; and

It consists in the combination of an elastic plate with the screw-bolt, and with the main packing and frames, whereby the strain upon the nut of the screw-bolt is relieved, as will be hereinafter more fully described.

The lanyard consists principally of two frames, A and B, of which the former is secured to the rigging or stay, while the latter is fastened to the chain-plate, or some other fixing on the railing or deck of the ship.

The frame A consists of two or more longitudinal bars, which are united at their upper ends, while their lower ends are fitted through a plate, C, and support such plate by means of nuts or heads, *a*, at their ends, as in fig. 1.

The frame B consists also of two or more longitudinal bars, as in fig. 2, which are united at their lower ends, and fit with their upper ends through a plate, D, carrying nuts or heads, *b*, at their upper ends, as shown.

The longitudinal bars A pass loosely through the plate D, and the bars B pass loosely through the plate C.

E is a central rod, fitted with its lower end into a cross-bar, *c*, of the frame B, and with its upper end through the plate D, carrying a nut, *d*, on its upper end, above the plate D, as shown.

F is an elastic block, or series of blocks, made of India rubber, or any other suitable material.

It is placed around the rod E, upon the plate C, and is covered by a plate, G, which slides loose on the rods A, B, and E.

By means of a nut, H, which works on the screw-rod E, and which can be adjusted up or down, the greater or less degree of compression of the elastic block F is determined.

There is a flange, *e*, formed on the screw or rod E, somewhat below the plate D, and between this flange, or its equivalent, and the plate D, is interposed an elastic washer, *f*, as shown.

When the rigging is strained, it will tend to pull the frame A upwards. Thereby the plate C will be raised, and the elastic block F will be compressed between the raised plate C and the fixed plate G. The nut H will thus receive the whole strain, but will by means of the washer *f* be relieved, which washer is compressed when the nut is raised by the pressure of the block F.

This elastic lanyard is strong, yielding, and of simple construction, and will operate satisfactorily.

Having thus described my invention,

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

The combination of the elastic washer *f* with the screw-rod E, collar *e*, nut H, plate D, elastic packing F, and frames A B, as herein described, for the purpose specified.

J. E. JONES.

Witnesses:

FRANK BLOCKLEY,

ALEX. F. ROBERTS.