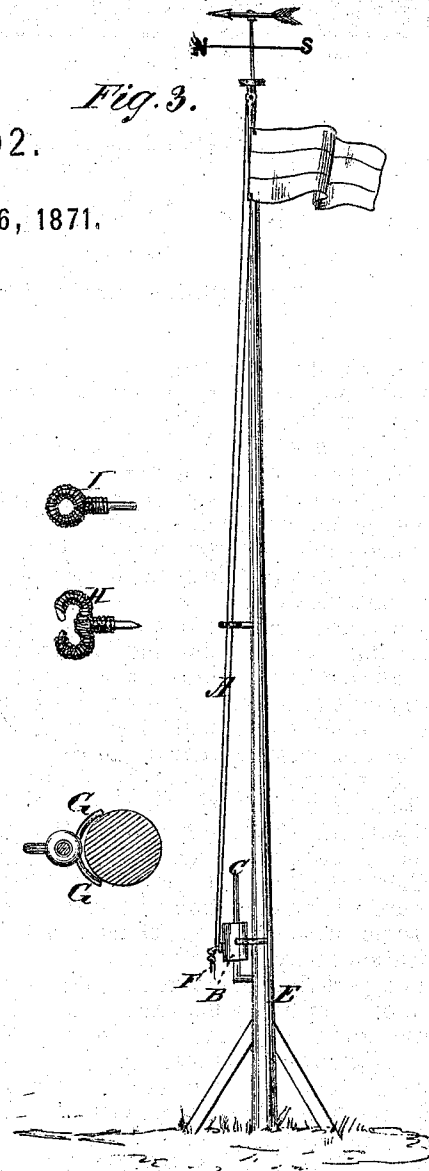
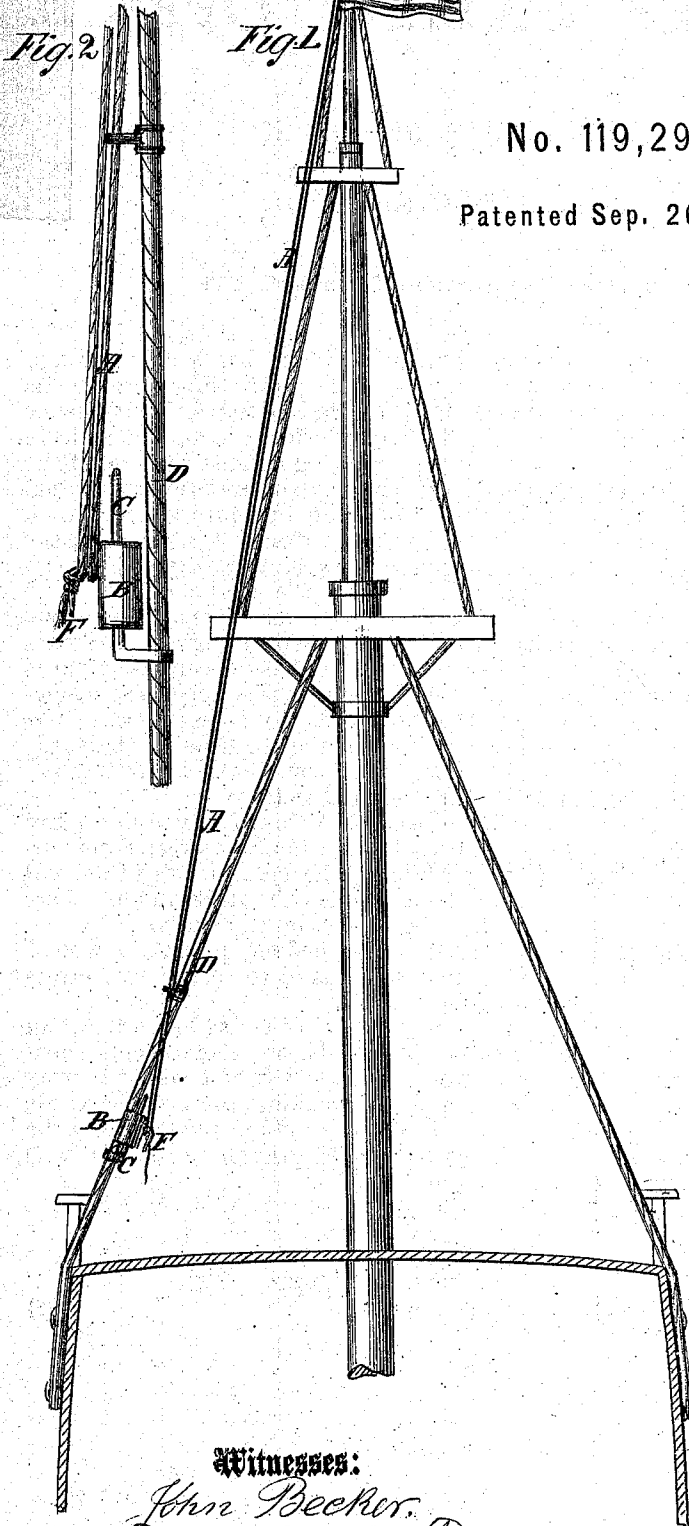


WILLIAM ALBERT.
Improvement in Flag Halyards.

No. 119,292.

Patented Sep. 26, 1871.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM ALBERT, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN FLAG-HALYARDS.

Specification forming part of Letters Patent No. 119,292, dated September 26, 1871.

To all whom it may concern:

Be it known that I, WILLIAM ALBERT, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Flag-Halyard; 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 drawing forming a part of this specification.

My invention relates to an improved manner of securing flag-halyards; and it consists in attaching them to a weight or traveler fitted on a rod or guide attached to the royal back-stays of a ship or other convenient place, or to the flag-staff near its base, so that it can rise and fall as the halyards vary in length according to their condition of dryness, thereby always keeping them taut but not overstraining them, as they will be if made fast when becoming very dry and then becoming wet.

Figure 1 is an elevation of the mast of a ship and some of the rigging thereof, showing the application of my improvement. Fig. 2 is a section of a part thereof enlarged. Fig. 3 is an elevation of an ordinary flag-staff, showing the application to it. Fig. 4 is a horizontal section of Fig. 3. Figs. 5 and 6 represent guides, which may be used at some distance above the lower fastening for the halyards to keep them from flopping about in the wind.

Similar letters of reference indicate corresponding parts.

A represents the flag-halyard; B, the weighted traveler; C, a rod attached to one of the shrouds D of a ship or to the flag-staff E, as shown, to extend from the point of connection along up the stay or staff a short distance parallel with it, to

receive the traveler, which has a hole through it for the purpose, and holds it. Said traveler has a hook or cleat, F, attached to it for convenience in making the halyards fast to it, and it may have curved bars G for acting against the side of the staff, as shown, to steady it and prevent turning. H and I represent guides or "fair-leaders," which may be placed on the staff or back-stays above the traveler, to prevent the halyards from being violently carried away by the wind and jerking up the weight. In case the one, I, is used, only one of the cords will be passed through it. The traveler will have such weight as to keep the halyards taut, or nearly so, under the action of the strongest wind they will naturally be subjected to, but will rise and fall on the rod C as the halyards change in length on account of their varying conditions of dryness and wetness.

It will be seen that this plan will not injure the halyards, while it will always keep them taut and trim; while in the common way they will sometimes be altogether too slack and at others so taut as to be broken by the strain.

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

The combination, with the flag-halyard A and the mast, staff, shrouds, or other object, whenever they are to be made fast, of a weighted traveler, B, adapted for making the said halyards fast to it, and capable of rising and falling as the halyards change in length, all substantially as specified.

WM. ALBERT.

Witnesses:

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