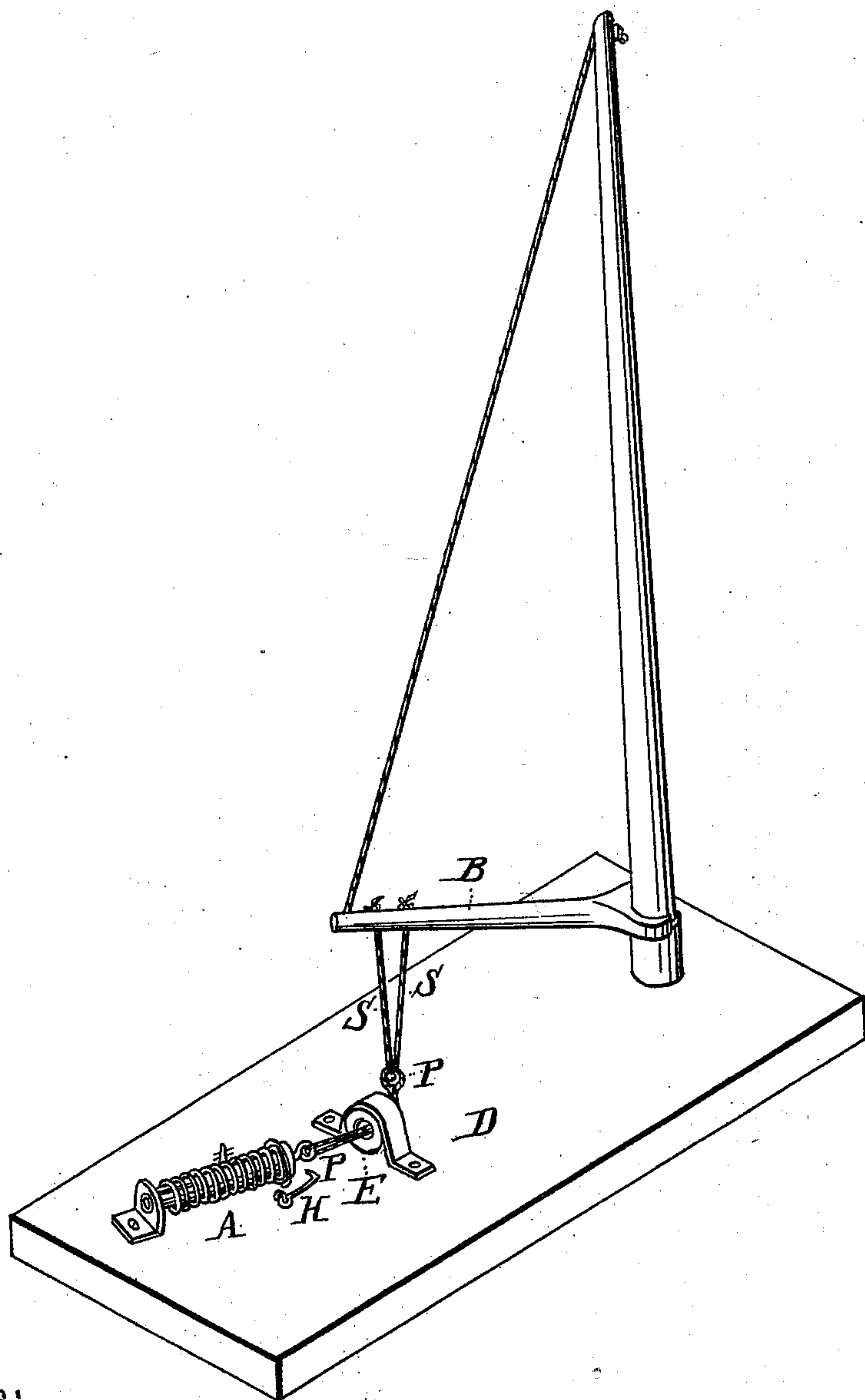


N. Woodbury
Elastic Coupling.
Nº 80,325. Patented Jul. 28, 1868.



Witnesses:

J. E. Maynard
opm. N. Woodbury

Inventor:

Nelson Woodbury

United States Patent Office.

NELSON WOODBURY, OF CHELSEA, MASSACHUSETTS, ASSIGNOR TO WILLIAM WOODBURY, OF SAME PLACE.

Letters Patent No. 80,325, dated July 28, 1868.

IMPROVEMENT IN PENDANTS FOR SHEETS OF FORE-AND-AFT SAILS.

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, NELSON WOODBURY, of Chelsea, in the county of Suffolk, and State of Massachusetts, have invented a new and useful "Spring-Pendant;" and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawing, making a part of this specification, in which—

D represents the deck of a vessel; B, the boom; S, the sheet; A, a spring, supported by standards secured to the deck; P, a pendant, attached to the spring A, which passes through an eye, E, secured to the deck, and to which the sheet is made fast; and H, a hook, to stop the action of the spring, if required.

In heavy weather, a constant succession of shocks upon the boom of a vessel and the sheet is caused by the swinging of the boom, and the rigid attachment of the sheets to the deck and to the boom. Such shocks are at times so great as to endanger the safety of the rigging, spars, and sails, and always occasion much wear and strain upon the various parts. In jibbing, and also in a heavy sea, this is especially the case, but, even in smooth water, the strain is sufficient to cause great wear. By attaching the sheet to a pendant connected with a spring, as shown in the drawing, I prevent the shock and consequent undue wear and strain of the parts. As in some cases the spring would not be required—for instance, in smooth water, when close-hauled—I have provided a hook, H, which fits in the eye of the spring where the pendant is attached, and prevents its action.

My invention consists, first, in the combination of the eye with the pendant, which passes through it, and is connected with a suitable spring, all properly secured; and, second, in the combination of the first part of my invention with a stop, which prevents the action of the spring.

In the drawing, the spring-pendant is represented as attached to the fore sheet of a fore-and-aft vessel, and the spring is placed as shown, in order that it may be clear of the mainmast. Its position can be varied, however, to suit the requirements of the vessels or sails to which it may be attached, and the spring, and the eye through which the pendant passes, may be fastened upon any desired part of the hull or spars. When used as a substitute for a traveller, I prefer to secure it to the deck, although it may be attached to the boom. The spring may be of rubber or other suitable material, instead of metal, as shown. Any stop may be used in place of the hook H.

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

The combination of a spring, a pendant, and an eye through which the pendant passes, or their equivalents, all substantially as and for the purpose specified.

NELSON WOODBURY.

Witnesses:

J. E. MAYNADIER,
WM. WOODBURY.