

S. POOLE.

Spring-Travelers for Vessels.

No. 156,039.

Patented Oct. 20, 1874.

Fig. 1.

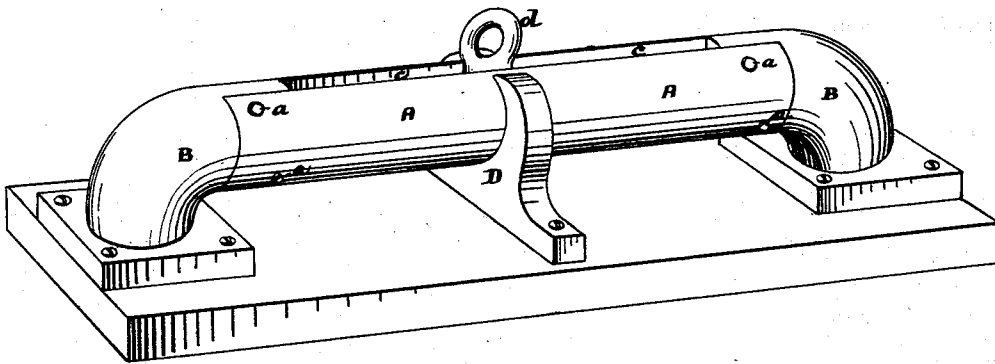
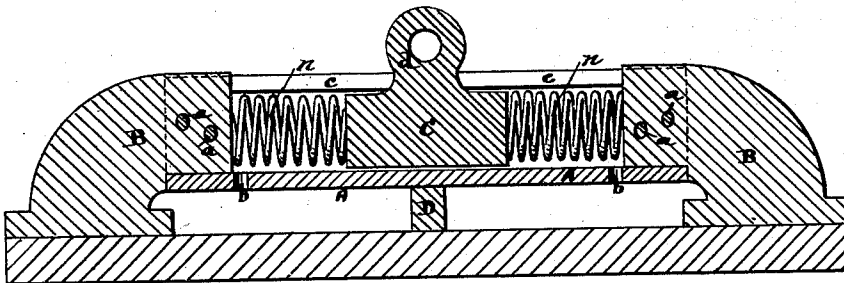


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

SAMUEL POOLE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN SPRING-TRAVELERS FOR VESSELS.

Specification forming part of Letters Patent No. **156,039**, dated October 29, 1874; application filed October 1, 1874.

To all whom it may concern:

Be it known that I, SAMUEL POOLE, of Brooklyn, Kings county, New York, have invented certain new and useful Improvements in Travelers for Ships and other Vessels, of which the following is a specification:

It is well known that the swinging of the boom from one side to the other of a vessel is, by reason of the severe shocks that arise from the ring of the sheet bringing up against one or the other end of the traveler, the occasion of injury to the sheet, and boom and traveler as well. To avoid this, it has been essayed heretofore to provide an elastic connection between the sheet and the traveler, or to furnish elastic buffers for the sheet to bring up against, which, by offering a yielding resistance to the movement of the sheet, would reduce the shock.

It is to such an arrangement of the traveler that my invention is directed; and the object I have in view is both to cheapen the traveler, and to render it more durable and better fitted to resist shock and strain.

The traveler in which my invention is comprised is represented in the accompanying drawing, in which—

Figure 1 is a perspective view of a traveler embodying my invention. Fig. 2 is a longitudinal vertical section of the same.

A is a cylinder, of cast or wrought iron, closed at its ends by blocks or plugs B, jointed to the cylinder and united therewith by bolts *a*, as shown. These blocks are provided with flanges, through which pass the bolts that secure the traveler to the deck, rail, or other part to which it is to be applied. Holes *b* are provided in the under side of the cylinder, to permit escape of water. This cylinder is a housing for the working or movable parts of the traveler, consisting of the slide C, which fits the bore of the cylinder, and the springs D, one on each side of the slide, confined between the ends of the slide and the bearing-blocks B. Access can be had to the interior of the cylinder by unbolting and removing the end blocks. The cylinder has a slot, *c*, through which project one or more eyes, *d*, forming part of the slide C. To the eye is connected the sheet,

as will be readily understood. The slot forms a guide for the eye, and maintains it in proper position.

The springs shown in the drawing are metallic spiral springs. They may, however, be rubber or other suitable springs.

The cylinder, constructed as described, thus constitutes at once a housing for the springs and slide, and a guide for the eye. The slot may be covered over readily by attaching to the eye two flaps of tarred canvas extending along and over the slot. Between the two end blocks may be one or more auxiliary braces, D, embracing and supporting the cylinder.

In lieu of having the slot uppermost, it may be underneath, in which case the eye would be underneath also. The ring connecting the eye with the hook of the sheet-block would, under this arrangement, pass through the eye and around the cylinder, and thus, even if the eye should happen to break or give way, the sheet would still be held to the cylinder, and the device, as a whole, would still act as efficiently as the old style of traveler.

The traveler thus constructed is cheap, very durable, and very efficient.

An important advantage is, that all the moving parts of the device are safely housed within, and enveloped by, the cylinder, which protects them and assures and maintains them in position.

This device can also be used to an advantage on ferry-boats, to take the place of the rigid eyes usually provided to take the hooks of the chains, by which the boat is held to the landing. The surging of the boat at the landing occasions the frequent breaking of the eyes or the chains; but by the use of the device I have devised, the liability to such accidents is notably diminished. In case the device is put to this use, but one spring, of course, would be needed.

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

1. The combination of the eye-slide, the spring or springs for offering a yielding resistance to the movement of the same, and

the slotted guide, cylinder, or case, enveloping and housing said parts, substantially as and for the purposes set forth.

2. The combination, with the slotted cylinder and the springs and eye-slide inclosed in the same, of the removable blocks or plugs closing the ends of said cylinder, as shown and described.

In testimony whereof I have hereunto signed my name this 30th day of September, A. D. 1874.

SAMUEL POOLE.

Witnesses:

EWELL A. DICK,
HENRY R. ELLIOTT.