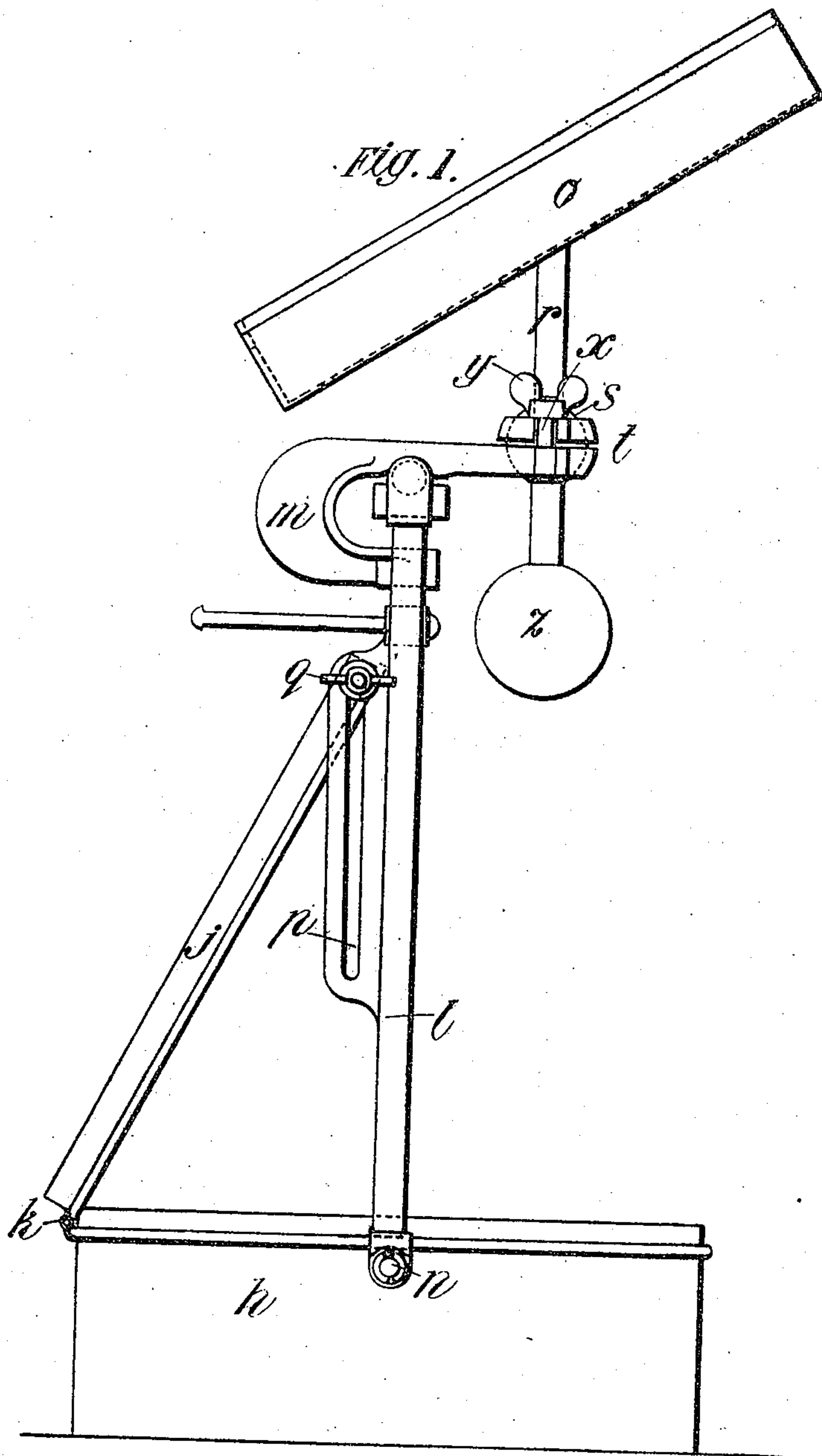


No. 797,613.

PATENTED AUG. 22, 1905.

W. SCHERMULY.
LINE THROWING APPARATUS.
APPLICATION FILED OCT. 18, 1901.

2 SHEETS—SHEET 1.



Witnesses,
A. T. Perkins.
R. Ellsworth.

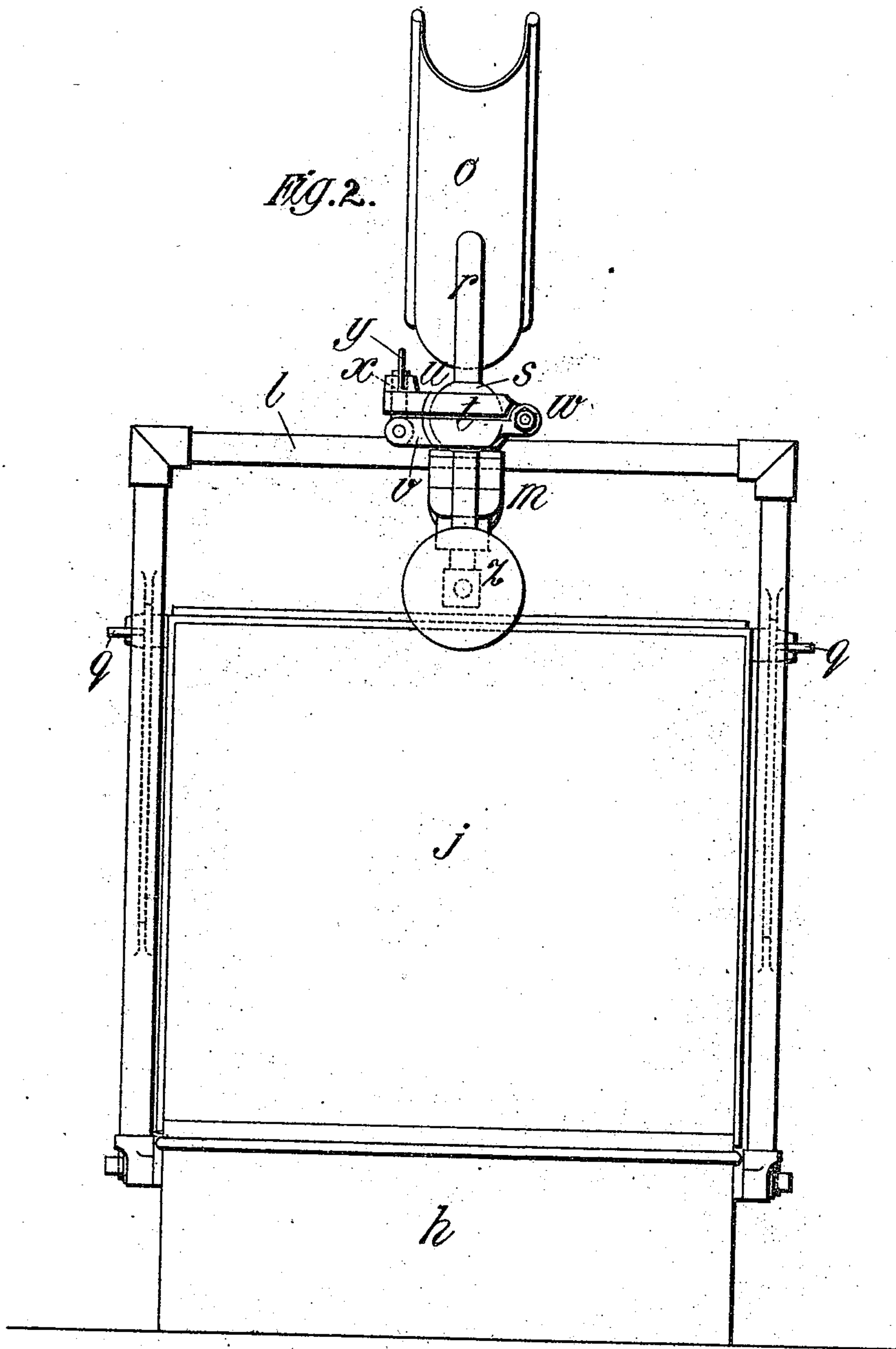
Inventor,
William Schermuly,
By his Attorney,
Baldwin, Handcock & Wright.

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UNITED STATES PATENT OFFICE.

WILLIAM SCHERMULY, OF POPLAR, ENGLAND.

LINE-THROWING APPARATUS.

No. 797,613.

Specification of Letters Patent.

Patented Aug. 22, 1905.

Application filed October 18, 1901. Serial No. 79,112.

To all whom it may concern:

Be it known that I, WILLIAM SCHERMULY, a subject of His Majesty the King of Great Britain, residing at Poplar, in the county of Middlesex, England, have invented new and useful Improvements in Line-Throwing Apparatus, of which the following is a specification.

My invention relates to line-throwing apparatus such as is used between a ship and shore or between two ships or other objects; and the purpose of my invention is to combine in an improved way a box which contains a coiled line and a rocket-holder in such manner that the box-lid is raised automatically with the rocket-holder support.

In the accompanying drawings, Figures 1 and 2 show in side and front elevation, respectively, a complete line-throwing apparatus.

A box *h*, which is intended to be filled with the coiled line, has a lid *j*, which lid may be hinged to the box, as shown at *k*, or it may be made to fit upon the box. In either case a water-tight india-rubber or like packing between the two parts may be employed.

Mounted upon the box *h* is a support *l* for the rocket-holder *m*. The said support *l* may be removably fitted into sockets located on the opposite sides of the box *h*, or it may be pivotally mounted thereon or hinged thereto, as shown at *n*. In this latter case and when the lid *j* is hinged to the box the sides of the support and the box-lid may be connected to each other. Normally the support *l* will be lowered or folded down. When it is required to be opened, upon the support being raised the lid *j* will be raised automatically, and it will be seen that the lid forms a shield to the line within the box against either the wind or the droppings from the fuse of the rocket which is placed in the trough *o*.

As a means of connection between the lid *j* and the support *l* the drawings show the support provided with slots or grooves *p*, through which the stems of butterfly-headed screws *q* pass and engage with the lid. If these screws are turned tightly in position when the support *l* is raised to its vertical position, it will be seen that the lid forms a brace for the support, thereby insuring its rigidity.

The rocket-trough *o* is mounted upon a stem *r*, which terminates in a ball *s*, forming part of a ball-and-socket connection *t*. The two halves *u* and *v* of the socket are hinged together at *w*, and at a point opposite the hinge is a clamping-screw *x*, pivoted to one part of the socket and adapted to engage a notch in

the other part of the socket, so that the ball *s* may be clamped between the two parts by means of a wing-nut *y*. Alternatively the two halves *u* and *v* of the socket may be held together by two clamping-screws. When thus clamped, the rocket-trough will be in a fixed position.

If it is required to automatically compensate for the rolling or pitching of the ship, the wing nut or nuts *y* may be sufficiently loosened and a stem terminating in a counterweight *z* may project from the ball *s*.

Thus it will be seen I provide a combined rocket-holder, support, and box of line in a compact and portable form, it being possible even to take it aloft to fire the rocket in the event of the decks of the vessel being swept by seas.

It will be understood that I may similarly coil and stow in boxes lengths of endless or other hauling-line, which hauling-line may be attached to the end of the rocket-line. In this manner all the hauling could be effected from the shore, (in the case of communication between ship and shore being established,) and this in the common event of the crew being benumbed would greatly facilitate rescue and allow the hauling to be with instead of against the wind when the latter is blowing from the sea on to shore.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. In a line-throwing apparatus, the combination of a box for a coiled line, and a rocket-holder support pivotally connected with said box.

2. A line-throwing apparatus comprising, in combination, a box for a coiled line, a hinged lid to said box, a rocket-holder support pivotally mounted on said box, and means connecting said box-lid to said rocket-holder support whereby the box-lid is raised automatically with the rocket-holder support.

3. A line-throwing apparatus comprising, in combination, a box for a coiled line, a hinged lid to said box, a rocket-holder support pivotally mounted on said box, and means connecting said box-lid to said rocket-holder support whereby the box-lid is raised automatically with the rocket-holder support and forms a shield for the line.

4. A line-throwing apparatus comprising, in combination, a box for a coiled line, a hinged lid to said box, a rocket-holder support pivotally mounted on said box, and

means connecting said box-lid to said rocket-holder support whereby the box-lid is raised automatically with the rocket-holder support and forms a brace therefor.

5. A line-throwing apparatus comprising, in combination, a box for a coiled line, a hinged lid to said box, a rocket-holder support provided with slotted sides and pivotally mounted on said box, and headed screws pass-

ing through said slots and engaging with said lid.

In testimony whereof I have hereunto subscribed my name.

WM. SCHERMULY.

Witnesses:

A. F. SPOONER,

J. S. WITHERS.