

Ryerson, Standliff & McIntosh,

Detaching Boats.

No. 105,983.

Patented Aug. 2, 1870

Fig. 1.

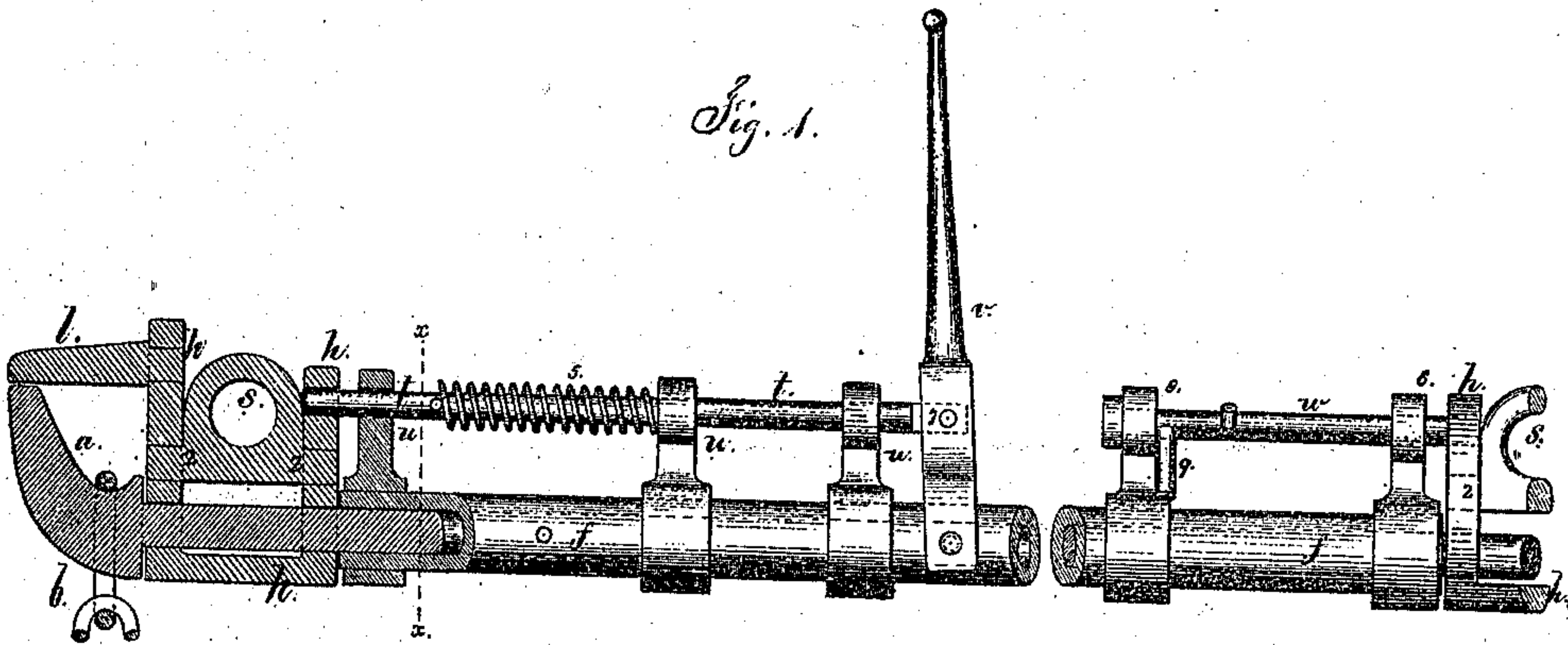
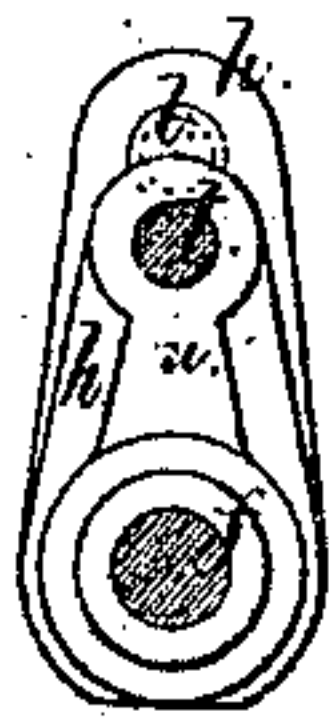


Fig. 2.



Witnesses

Chas. H. Smith,
Geo. W. Pickney

W. J. Ryerson,
G. Standliff,
O. J. McIntosh,
per Lemuel W. Perrell atty.

United States Patent Office.

WILLIAM S. RYERSON, GEORGE STANCLIFF, AND OLIVER T. MCINTOSH, OF NEW YORK, N. Y., ASSIGNORS TO THEMSELVES, STEPHEN G. TRIPP, AND CHARLES CHAMBERS, OF SAME PLACE.

Letters Patent No. 105,983, dated August 2, 1870.

IMPROVEMENT IN BOAT-DETACHING APPARATUS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that we, WILLIAM S. RYERSON, GEORGE STANCLIFF, and OLIVER T. MCINTOSH, of the city and State of New York, have invented and made a new and useful Improvement in Boat-detaching Apparatus; and the following is declared to be a correct description of the same.

This invention is an improvement upon those for which Letters Patent No. 91,488 and 101,665 were granted June 15, 1869, and April 5, 1870, respectively.

Our invention is for facilitating the disconnection of the boat, preventing accidental disconnection, and allowing for the removal of the disconnecting apparatus with facility, when it is desired to use the ordinary blocks or falls in hoisting the boat to the davits.

Our special features of invention relate to a sliding spring bolt and lever, combined with the horn and guard-finger, (of aforesaid patents,) whereby the disconnecting of the parts is effected with facility, so that the horns can be turned for throwing off, simultaneously, the rings of the suspending chains. We also provide a safety-bolt to prevent accident while hanging at the davits.

In the drawing—

Figure 4 is a side and partially sectional view of the boat-detaching apparatus, and

Figure 2 is a cross-sectional view at the line *x x*.

The horns, *a*, at the ends of the shaft *f*, to take the rings, *b*, of the suspending chains, and the guard-fingers *l*, are substantially the same as in the aforesaid patent No. 101,665, but we find that, in some instances, where the ropes go around the sheaves, *g*, there is a tendency to rotate the whole apparatus, when drawing up or lowering the fall; we therefore make the sling *h* double, with the point of attachment for the fall above the shaft *f*, so that the apparatus will be suspended, and there will not be any risk of the apparatus rotating by the action of the fall.

The point of attachment, 2, for the said fall, is shown with an eye, *s*, into which the hook of the fall-block is passed at each end of the apparatus.

This construction prevents the shaft *f* turning accidentally, and we prefer to use the said eye *s* because it allows the falls to be unhooked from the detaching

apparatus and hooked directly to the boat, when said boat is to be drawn out of the water.

It is to be understood that, when the detaching apparatus has been disconnected to facilitate the hoisting, it is to be replaced after the boat has been swung or slung from the davits, so as to be in readiness for the detaching of the boat the next time.

In place of the eye *s*, a sheave or sheaves might be provided around a pin at 2, for the ropes of the fall to pass through.

The sliding bolt *t* is supported in the blocks *u*, and pressed forward by the spring 5 into a hole in the double sling *h*, to keep the parts in place, and a lever, *v*, forked to the fulcrum 7, is connected with this bolt *t*, and serves to withdraw the same and rotate the shaft *f* and horns when the boat is to be disconnected.

A safety-bolt, *w*, is provided at the other end of the apparatus, the same sliding in lugs, 6 and 8, and having a knob or lever, 9, that can be turned down on one side of the lug 8, to prevent the bolt being drawn back accidentally, and this is also a safety to prevent the boat being lost through accident or careless handling of the lever *v* when the boat is hanging at the davits.

The shaft *f* may be made of metal tubing, or of wood, or other material, so as to insure lightness and strength.

We claim as our invention—

1. The double sling *h*, having the points of attachment, 2, for the fall above the shaft *f*, in combination with the horns *a* and guard-fingers *l*, substantially as and for the purposes specified.

2. The spring bolt *t* and lever *v*, applied as specified, in combination with the sling *h*, horns *a*, and guard-fingers *l*, substantially as and for the purposes set forth.

In witness whereof we have hereunto set our signatures this 9th day of May, 1870.

WM. S. RYERSON.
GEO. STANCLIFF.
OLIVER T. MCINTOSH.

Witnesses:

CHAS. H. SMITH,
GEO. T. PINCKNEY.