

J. G. Codrums.

Ship Implement.

N^o 47,164.

Patented Apr. 4, 1865.

Fig. 1.

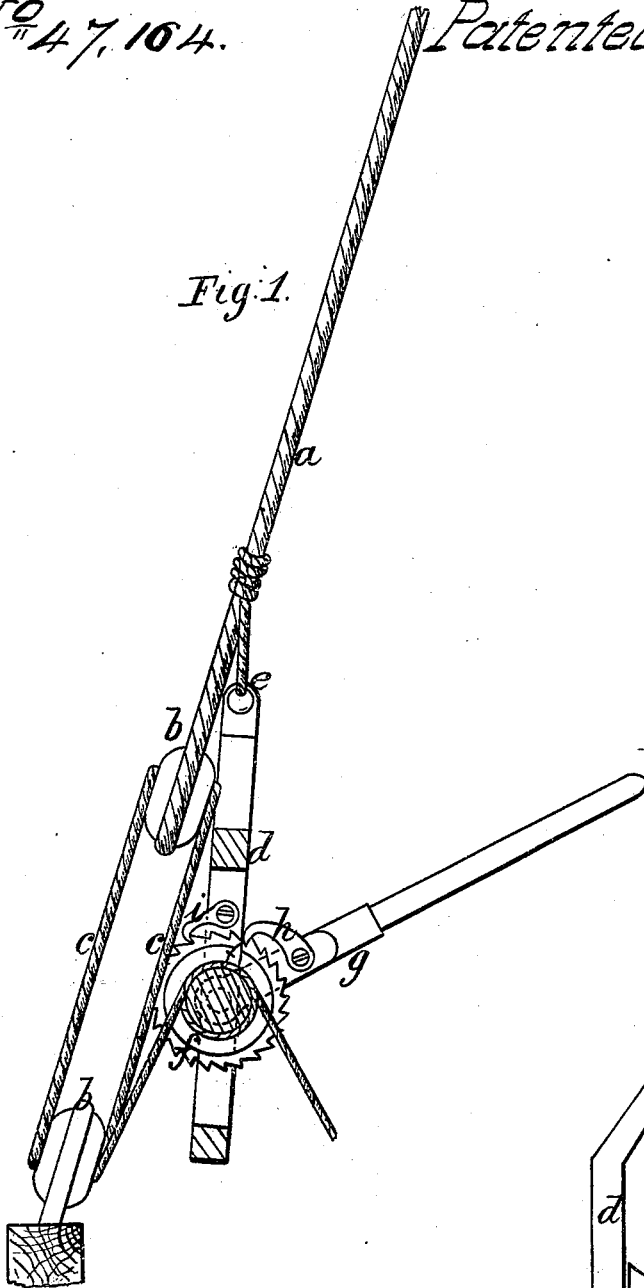
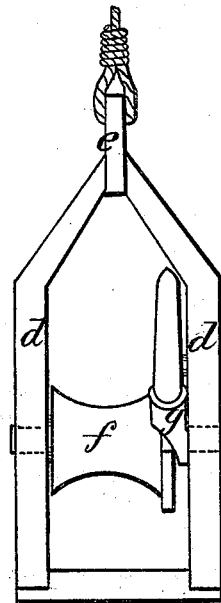


Fig. 2.



Witnesses;
Thos. Geo. Harrod

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UNITED STATES PATENT OFFICE.

JASPER G. CODMUS, OF PORT RICHMOND, NEW YORK.

IMPROVED WINDLASS FOR TIGHTENING SHIPS' STANDING RIGGING.

Specification forming part of Letters Patent No. 47,164, dated April 4, 1865.

To all whom it may concern:

Be it known that I, JASPER G. CODMUS, of Port Richmond, in the county of Richmond and State of New York, have invented, made, and applied to use a certain new and useful Improvement in Means for Tightening Rigging, &c.; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawings, making part of this specification, wherein—

Figure 1 represents my apparatus as applied to the tightening of a shroud, and Fig. 2 is an elevation of my tightening apparatus at right angles to Fig. 1.

Similar marks of reference denote the same parts.

Shrouds and standing rigging of vessels have heretofore been tightened by a tackle applied some distance up the rope and acting to haul up the rope that is laced through the "dead-eyes."

It is difficult to apply this tackle, and considerable space is required to work it, besides which the shroud that is below the point at which the upper block of the tackle is attached is not strained with the same power as that above said point, the lower part of said shroud only being acted upon by the tightening of the rope led through the dead-eyes.

The nature of my said invention consists in a portable winch-barrel fitted in a frame that is suspended from the shroud or rope to be tightened, and said winch receives the rope

that passes through the dead-eyes. By this apparatus one man with a handspike or lever can tighten up rigging of considerable size with great ease, and the said apparatus can be easily moved from place to place and applied to any standing rope or shroud.

In the drawings, *a* represents the rope, shroud, or standing rigging to be tightened. *b b* are the dead-eyes, connected as usual. *c* is the rope passed up and down through the dead-eyes, as usual. *d* is a frame with an eye, *e*, at the upper end, by means of which it is to be suspended from the shroud or rope to be tightened. *f* is a winch-barrel provided with a hand-spike or lever socket, *g*, and pawl *h*, and *i* is a standing pawl on *d*.

It will now be evident that the rope *c* may be hauled upon with considerable power at the same time that the strain of the frame *d* upon the rope *a* tends to draw that down, so that the standing rigging can be strained up very tightly.

What I claim, and desire to secure by Letters Patent, is—

The frame *d*, suspended by the eye *e* from the rope or shroud to be tightened, in combination with the winch-barrel *f* and a handspike or lever to turn said winch-barrel, as and for the purposes specified.

In witness whereof I have hereunto set my signature this 24th day of January, 1865.

J. G. CODMUS.

Witnesses:

CHAS. H. SMITH,

THOS. GEO. HAROLD.