

(No Model.)

F. ROBINSON.
SHEET SHACKLE.

No. 517,068.

Patented Mar. 27, 1894.

Fig. 1.

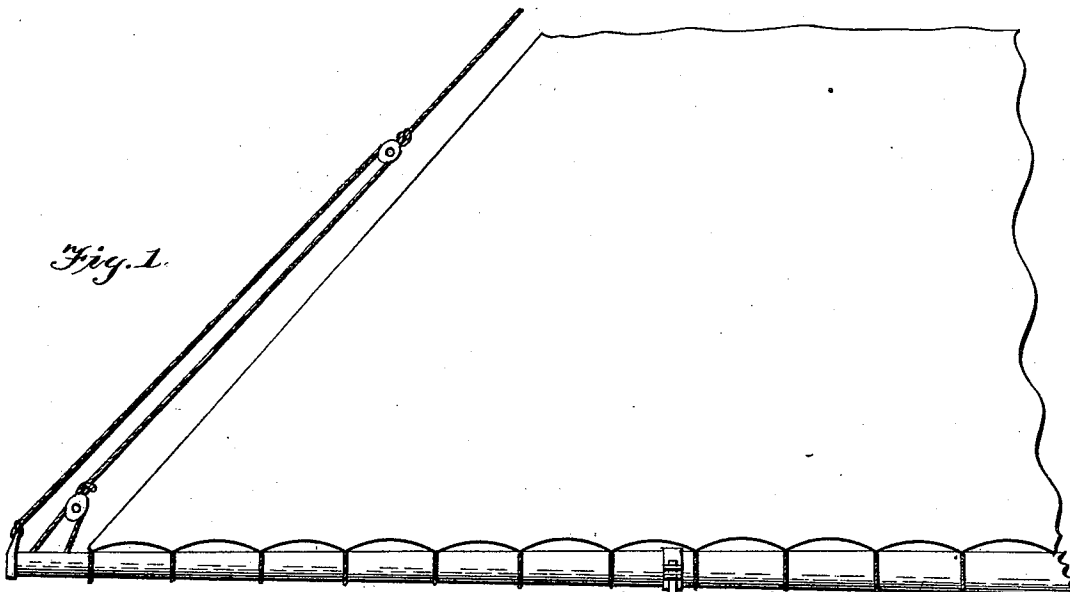


Fig. 2.

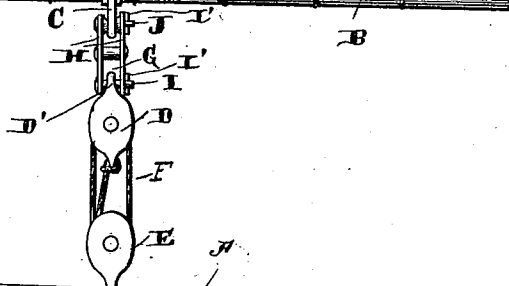
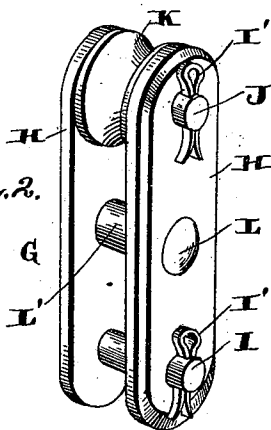
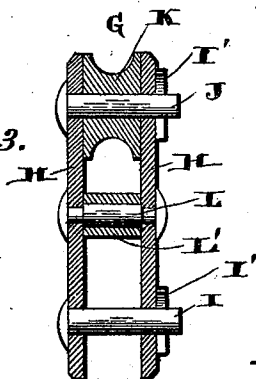


Fig. 3.



WITNESSES—

Geo. C. French.

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INVENTOR—

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UNITED STATES PATENT OFFICE.

FRANK ROBINSON, OF GLOUCESTER, MASSACHUSETTS.

SHEET-SHACKLE.

SPECIFICATION forming part of Letters Patent No. 517,068, dated March 27, 1894.

Application filed January 31, 1893. Serial No. 460,406. (No model.)

To all whom it may concern:

Be it known that I, FRANK ROBINSON, of Gloucester, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Sheet-Shackles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in sheet shackles; and it consists in the novel device hereinafter described for securing to the main boom bail the sheet block over which the line passes for drawing in the boom.

The object of my invention is to provide a device for making the above mentioned connection which is very simple and durable, and which may be easily removed if so desired for any cause.

Referring to the accompanying drawings,—Figure 1 is a side elevation of a portion of a sail boat showing my device in position thereon. Fig. 2 is an enlarged detached view of the same. Fig. 3 is a sectional view.

A, designates the rear portion of a boat and B, the main boom from which depends the bail C.

D, is the sheet block and E, the lower block around which the rope F, passes for the purpose of regulating the extended position of the boom. The block E, is secured to the boat while block D, having the eye D', at its upper end is connected to the bail C, by the shackle G, which latter consists of the parallel side bars H, connected at their lower and upper ends respectively by the pins I, and J. The former confines the eye D', of the block D, while upon the pin J, is the roller K which plays as shown upon the bail C.

In the center of the shackle is the pin L,

having sleeve L', thereon for bearing without friction upon the convex side of the bail when the shackle has from any cause been raised from its normal position. This pin is shouldered at its ends as shown in Fig. 3 with the side bars H, resting against the shoulders and riveted firmly in place. Thus the bars are held securely and rigidly together.

The pins I, and J, are removable as shown, being held in place by keys I', so that the parts may be readily detached for repairs or for other purposes.

By this improved shackle it will be seen that I provide a very cheap and simple connection between the bail and sheet block which will yield to every movement of the boom without causing friction upon any parts excepting the pins carrying the pulleys.

Having thus fully described my invention, I claim—

1. A sheet shackle consisting of two parallel side bars connected by transverse central end pins, one of the end pins adapted to receive a sheet block, the other end pin carrying a roller adapted to play upon the concave side of the boom bail, and a sleeve upon the central pin adapted to play upon the convex side of the boom bail, substantially as specified.

2. A sheet shackle consisting of parallel bars, a permanent central transverse pin holding the parallel bars permanently thereto, and removable transverse end pins, one of said end pins carrying a roller, the parts adapted to operate as described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK ROBINSON.

Witnesses:

FRANK E. SMOTHERS,
CYRUS STORY.