

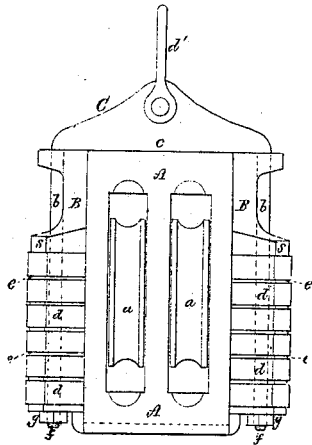
*R. J. Smith,*

*Tackle Block.*

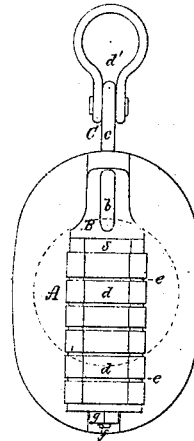
*No. 109,260.*

*Patented Nov. 15, 1870.*

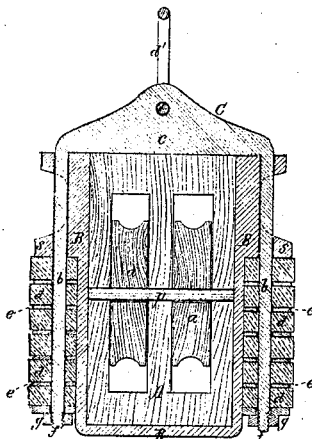
*Fig. 1.*



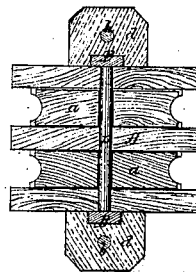
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Witnesses*  
*S. N. Piper.*  
*J. Ashrow*

*R. J. Smith*  
*by his attorney*  
*W. M. Eady*

# United States Patent Office.

ROSCOE J. SMITH, OF NORTH HAVEN, MAINE.

Letters Patent No. 109,260, dated November 15, 1870; antedated November 5, 1870.

## IMPROVEMENT IN TACKLE-BLOCKS.

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

*To all persons to whom these presents may come:*

Be it known that I, ROSCOE J. SMITH, of North Haven, of the county of Knox and State of Maine, have made a new and useful invention having reference to Tackle-Blocks; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawing, of which—

Figure 1 is a front elevation,

Figure 2, a side view,

Figure 3, a vertical section, and

Figure 4, a horizontal section of a block provided with my invention, the nature of which consists in an arrangement and combination of two springs or series of springs, a yoke, and a shouldered strap or frame, as hereinafter described, together and with a tackle-block, the whole being as explained.

In such drawing—

A denotes a common double-sheaved tackle-block, of which *a a* are the grooved rollers or sheaves.

This block is encompassed by a metallic strap or frame, B, provided with two abutments or shoulders, *s s*, arranged on opposite sides of the block, and in other respects as represented.

A yoke, C, formed with two parallel legs, *b b*, and a cross-bar, *c*, pivoted to a shackle, *d*, extends down through the frame B and its shoulders, in manner as shown in fig. 3.

Each of the legs also goes through one of two series of springs or blocks of rubber, *d d d*, and a series of metallic plates, *e e e*, arranged with the said rubber blocks, and so as to separate them from one another in manner as indicated in the drawing.

The upper spring of each of the series rests directly against one of the shoulders of the frame B.

The blocks of rubber, as well as their separation-plates, are notched upon the side bars of the frame

B, whereby the said plates and springs are steadied during contraction or expansion of the springs.

Each leg of the yoke has a screw, *f*, formed on it, at and near its lower end, to receive a nut, *g*, which, when screwed on the leg, serves to keep the springs and plates of each series in their true relations with each other, and with the shoulder of the frame B.

The object of the springs so applied to the block is to prevent any sudden strain on it, while it may be in use; from breaking the sheaves or their center-pin *p*, or otherwise injuring the block, or whatever may be connected with it.

I am aware of the subject of the patent No. 92,535, dated July 13, 1869, and make no claim thereto.

I in no respect recess the cheeks of my block to receive elastic cushions adapted to be compressed between the arms of a strap and the upper ends or parts of the recesses of the cheeks.

I employ in the construction of my block, and in the application of springs to it and its yoke, the shouldered strap or saddle B, to extend along the sides of and underneath and across the block A, such saddle accomplishing three purposes, viz., a support for the springs, as a rest for the bottom of the block, and, with the yoke C, a means of encompassing the block and strengthening it, so as to prevent it from breaking apart laterally.

I therefore claim—

The improved tackle-block, as made with the shouldered saddle B, as described, the yoke C, the springs, and the body part A, provided with one or more sheaves, all being arranged and combined as explained.

ROSCOE J. SMITH.

Witnesses:

R. H. EDDY,

J. R. SNOW.