2 Sheets—Sheet 1.

J. SIMPSON & A. A. POPE.

TACKLE-BLOCK.

No. 188,759. Patented March 27, 1877.

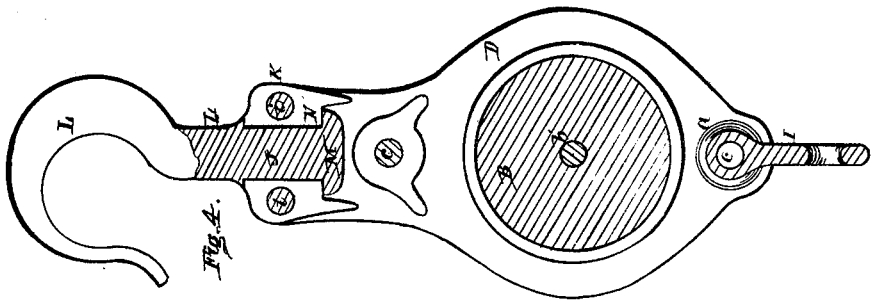

Fig. 4.

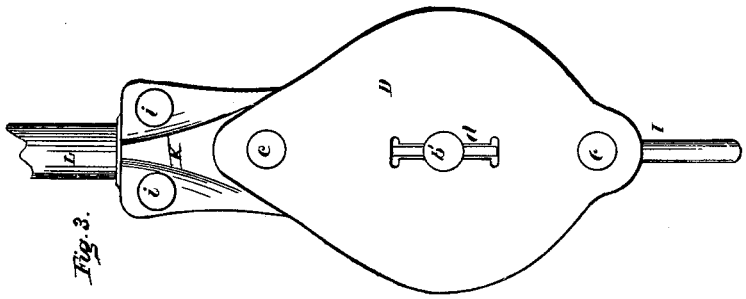

Fig. 3.

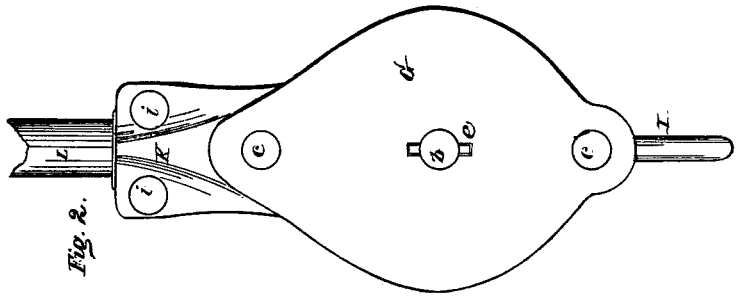

Fig. 2.

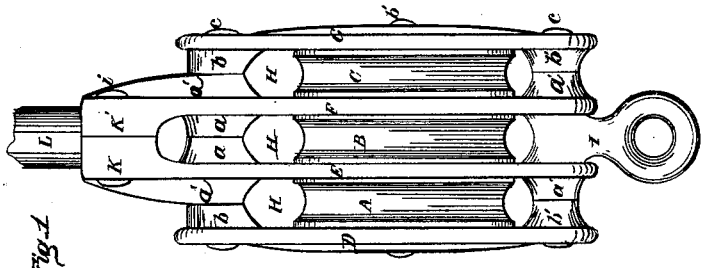

Fig. 1.

Witnesses

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2 Sheets—Sheet 2.

J. SIMPSON & A. A. POPE.

TACKLE-BLOCK.

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Fig. 5.

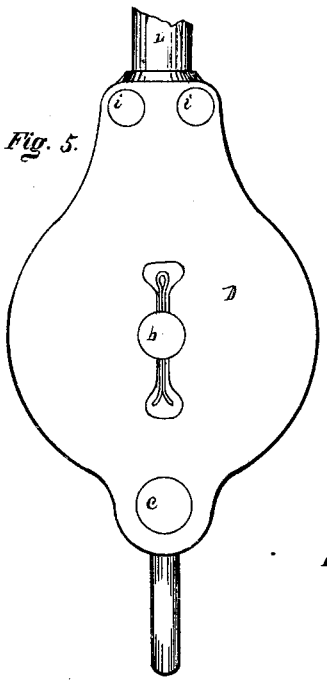


Fig. 6.

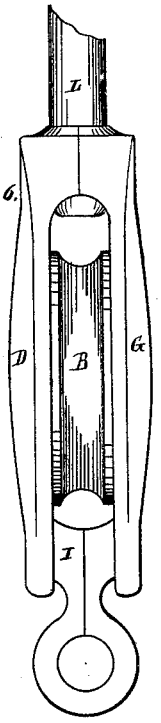
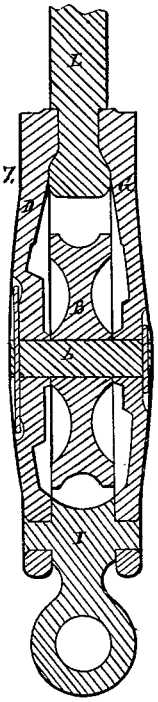


Fig. 7.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN SIMPSON AND ALFRED A. POPE, OF CLEVELAND, OHIO.

IMPROVEMENT IN TACKLE-BLOCKS.

Specification forming part of Letters Patent No. **188,759**, dated March 27, 1877; application filed June 22, 1876.

To all whom it may concern:

Be it known that we, JOHN SIMPSON and ALFRED A. POPE, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and Improved Tackle-Block; and we do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawings, making a part of the same.

Figure 1 is a front view of a three-sheave pulley-block. Figs. 2 and 3 are side views of Fig. 1. Fig. 4 is a vertical transverse section of same. Fig. 5 is a side view of a one-sheave pulley-block. Fig. 6 is a front view of Fig. 5. Fig. 7 is a vertical transverse section of Fig. 5.

Like letters of reference refer to like parts in the several views.

The nature of this invention relates to an improved mode of attaching a hook to a pulley-block. It also relates to the peculiar construction of the sections of the block, and of the manner of putting the same together.

The following is a full and complete description of the invention.

The drawings Nos. 1, 2, 3, and 4 represent a three-sheave block. For this number of sheaves, four sections of the shell are requisite in the construction, as shown by D, E, F, and G. The drawings 5, 6, and 7 represent a one-sheave block; in this case two sections of the shell only are requisite. The sections referred to above are made of malleable cast-iron, or other suitable metal. A, B, and C represent the sheaves of the blocks, which are, or may be, like those in ordinary use.

The cheeks or outer sections D and G are duplicates, or similar outside views of which are shown in Figs. 2 and 3. Sections E and F are also duplicates, inside view of which, with sheave in position, is shown in Fig. 4.

It will be seen that the space between the sections for the sheave is obtained by the projectures *a*, *a'*, and *b* on the inner sides of the sections, which, when the sections are placed together, form openings H for the sheave, as will be seen in Fig. 1.

The lower ends of the sections E and F are retained apart by the becket I. The several sections are fastened to each other by rods *c*, passed entirely through the sections and riveted, as shown in Figs. 1 and 2, leaving no projecting ends beyond the cheeks. The riveting of rods *c* and fastenings of shaft or pin *b'* are made by riveting and fastening in countersinks and recesses below the outside surfaces of the cheek-pieces D and G, to avoid friction or chaffing in contact with the rope rigging, &c.

The upper ends of sections E and F are extended beyond the projectures *a a*, forming a neck, K K'. On the inner side of each is a semicircular groove, forming a hole when the two sections are placed together, wherein is fitted so as to turn readily the shank J of a hook, L, said hook being placed in position when the sections K and K' are riveted together, and takes its engagement for its burden or work at the shoulder N by means of its head M, as shown in Fig. 4. This attachment of the hook to the block forms a swivel-joint, whereby the block can adjust itself to position.

The riveting through the necks K and K' by rivets *i*, in addition to the rod *c*, as well as the double riveting shown in drawings of single block, fastens the sections of the blocks together, and secures the hook in position.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The combination of the eye-piece I, constructed substantially as described, and the hook L, provided with the shank J, with the E F or sides D G, having projectures *a*, and extensions K K', with recesses therein, all as described.

2. The pieces E F, formed with projectures *a a* on their inside upper parts, and with projectures *a' a'* above and below on their outsides, in combination with the plates D G, provided with projectures *b b'*, substantially as and for the purpose described.

3. The combination of the eye-piece I, having pivoted projections on each side, with the plates of a pulley-block, substantially as and for the purpose described.

JOHN SIMPSON.
ALFRED A. POPE.

Witnesses:
J. H. BURRIDGE,
J. H. WRIGHT.