B. C. BALL.

PULLEY BLOCK.

APPLICATION FILED OCT. 7, 1914.

1,145,110. Patented July 6, 1915.

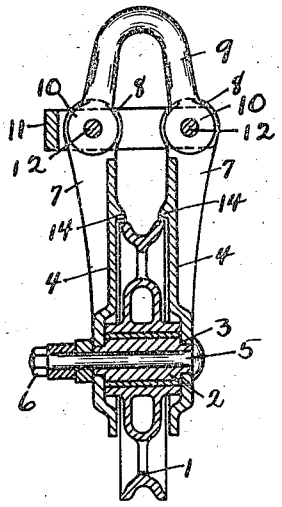


Fig. 1.

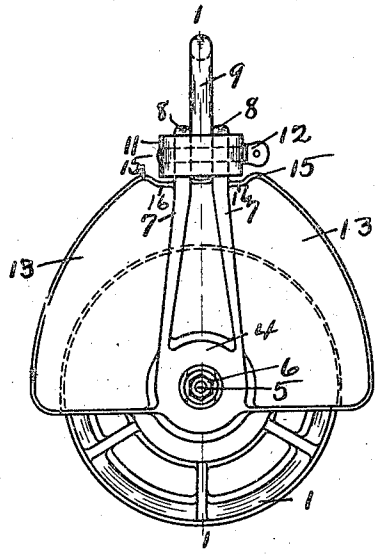
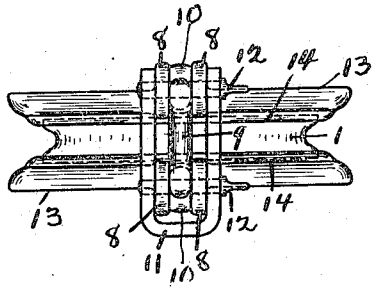


Fig. 2.

Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

BERT C. BALL, OF PORTLAND, OREGON.

PULLEY-BLOCK.

1,145,110. Specification of Letters Patent. Patented July 6, 1915.

Application filed October 7, 1914. Serial No. 865,579.

To all whom it may concern:

Be it known that I, BERT C. BALL, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented new and useful Improvements in Pulley-Blocks, of which the following is a specification.

This invention relates to pulley blocks and consists in certain improvements in the construction thereof as will be hereinafter fully described and pointed out in the claims.

More particularly the block is designed for cable ways wherein cables are being passed through the block at very high speed in the operation of the hoisting or carrying devices.

The invention is illustrated in the accompanying drawings as follows:

Figure 1 shows a section on the line 1—1 in Fig. 2. Fig. 2 a side elevation of the pulley block. Fig. 3 a plan view.

The pulley wheel 1 is mounted on a bearing pin 2, the bearing pin extending through the perforations 3 in the block sides 4. The bolt 5 extends through the bearing pin 2 and is secured in place by a nut 6. The block sides have the upwardly extending ribs 7—7 which terminate in ears 8—8. The shackle 9 in the form of a loop terminates in the eyes 10. These eyes are adapted to extend between the perforated ears 8—8 on each side and have perforations which register with the perforations in the ears 8—8. A guard 11 is U-shaped, the arms of the guard extending along the sides of the ears 8—8. The guard has perforations which are adapted to register with the perforations in the ears 8—8. Pins 11, preferably removable pins, extend through the perforations in the guard, ears and eyes, thus locking the block sides, guard and shackle together. This makes a very compact and yet a very simple and very strong construction. If it is desired to open the shackle, the pin on the closed side of the guard may be withdrawn when the loop of the guard will retain the block side in place.

Where high speed cables are used difficulty is experienced in their fouling with the pulley block. The block sides have the cheeks 13—13 forming guides for the pulley block. These are provided with the annular ribs 14—14 extending from the periphery of the pulley. I also have the upward extensions 15 in the upper edge of the cheeks 13 forming slots 16 into which the guard extends. The projections 15 overlapping in this way the guard prevent the fouling of the cable in the corner between the guard and the cheeks 13.

What I claim as new is:—

1. In a pulley block, the combination of a sheave; block sides between which the sheave is journaled, said block sides having cheeks extending thereon and upwardly extending ribs terminating in perforated ears above the cheeks; a shackle loop terminating in eyes arranged between the ears; a U-shaped guard encircling the ears on one of the block sides and extending along the sides of the ears on both block sides and having perforations registering with the perforations in the ears; and pins extending through the guard, ears and shackle.

2. In a pulley block, the combination of a sheave; block sides between which the sheave is journaled, said block sides having cheeks extending thereon and upwardly extending ribs terminating in perforated ears above the cheeks, the cheeks having downwardly extending slots adjacent to the ears; a shackle loop terminating in eyes arranged between the ears; a U-shaped guard encircling the ears on one of the block sides and extending along the sides of the ears on both block sides and downwardly into said slots in the cheeks and having perforations registering with the perforations in the ears; and pins extending through the guard, ears and shackle.

3. In a pulley block, the combination of a sheave; block sides between which the sheave is journaled, said block sides having cheeks extending thereon and upwardly extending ribs terminating in perforated ears above the cheeks, the cheeks having downwardly extending slots adjacent to the ears; a shackle loop terminating in eyes arranged

between the ears; guard plates along the sides of the ears and extending downwardly into the slots in the cheeks, said guard plates having perforations registering with the perforations in said ears; and pins extending through said guard plates, ears and shackle.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

BERT C. BALL.

Witnesses:
HOMER V. CARPENTER,
J. F. BRUENING.