C. B. BRISTOL.
Pulley-Block.

No. 196,187. Patented Oct. 16, 1877.

fig. 1.

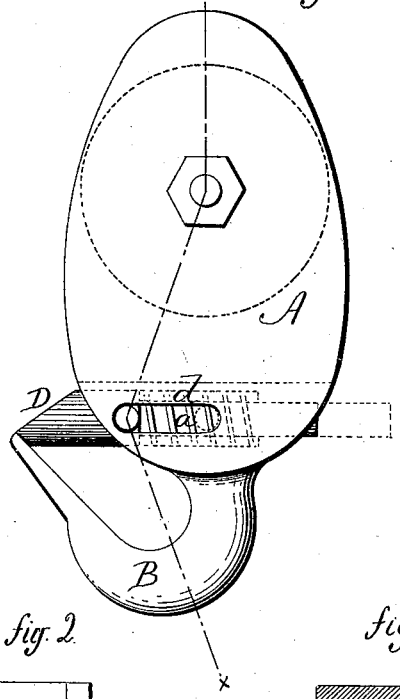


fig. 2.

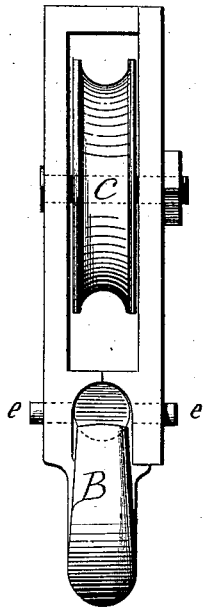
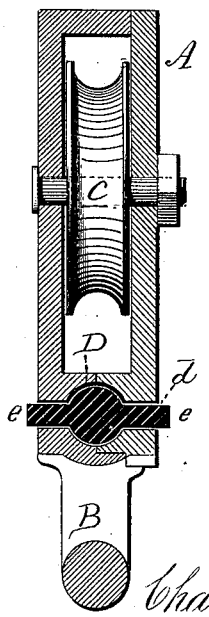


fig. 3



Witnesses.
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Chas. A. Nelson.

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By Atty
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UNITED STATES PATENT OFFICE.

CHARLES B. BRISTOL, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN PULLEY-BLOCKS.

Specification forming part of Letters Patent No. **196,187**, dated October 16, 1877; application filed September 11, 1877.

To all whom it may concern:

Be it known that I, CHARLES B. BRISTOL, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Pulley-Blocks; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, side view; Fig. 2, edge view; Fig. 3, vertical section on line X X.

This invention relates to an improvement in pulley-blocks, such as are designed to be attached in places where the block is liable to swing or be turned into various positions, and which, with an open hook, would be frequently disengaged.

The object of this invention is to construct the block so that such disengagement is impossible; and it consists in combining with the pulley-block and rigid hook a closing device, which will automatically act to close the mouth of the hook, and maintain that closed condition until mechanically opened.

A represents the block, formed with a hook, B, as a stationary or permanent part of the block. Within the block one or more pulleys, C, is arranged, in the usual manner.

As here represented, the closing device is a bolt, D, arranged in a seat in the block in the plane of the hook, and with a spring, *a*, tending to throw the bolt outward, so that it will extend across the mouth of the hook, as seen in Fig. 1. This is the normal condition of the bolt. Through the sides of the block a slot, *d*, is made, and through these slots a projection, *e*, on each side of the bolt extends, as seen in Figs. 2 and 3, to serve as convenient means for drawing the bolt, as indicated in Fig. 1, to open the mouth of the hook.

By this construction the mouth of the hook is securely closed, and so that it cannot be detached without mechanically moving the bolt.

While the bolt, as here shown, is believed to be the best method for closing the mouth of the hook, equivalent devices may be made which will accomplish the same purpose—that is to say, to automatically close the mouth of the hook.

I claim—

In combination with a pulley-block and the hook rigidly attached thereto, or made a part thereof, a mechanism, substantially such as described, to automatically close the mouth of the hook, and substantially as specified.

CHAS. B. BRISTOL.

Witnesses:

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