

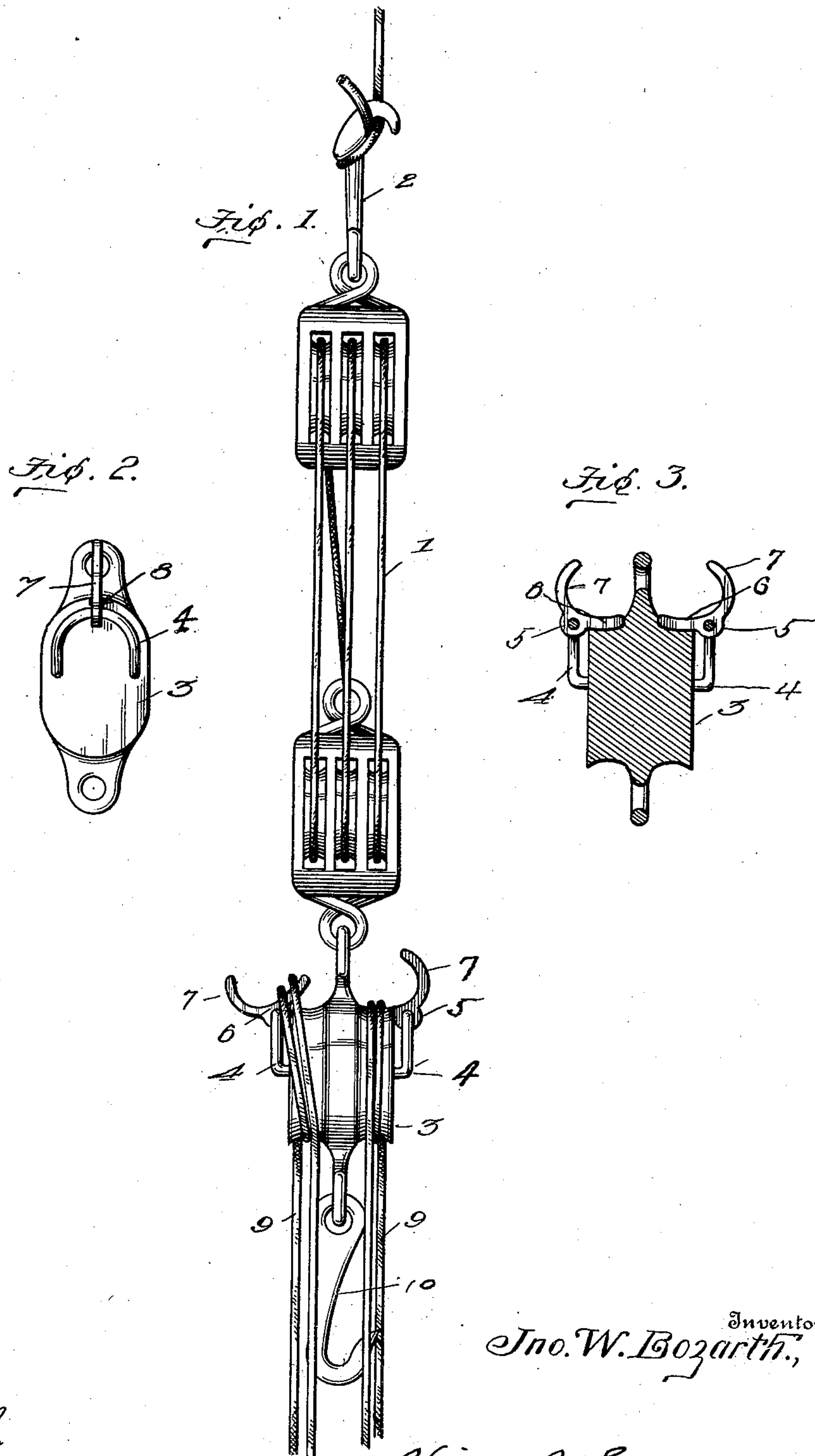
No. 685,249.

Patented Oct. 29, 1901.

J. W. BOZARTH.
SAFETY DEVICE FOR HOISTING APPARATUS.

(Application filed Aug. 28, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN WILLIAM BOZARTH, OF DAYTON, WYOMING.

SAFETY DEVICE FOR HOISTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 685,249, dated October 29, 1901.

Application filed August 28, 1900. Serial No. 28,315. (No model.)

To all whom it may concern:

Be it known that I, JOHN WILLIAM BOZARTH, a citizen of the United States, residing at Dayton, in the county of Sheridan and State of Wyoming, have invented new and useful Improvements in Safety Devices for Hoisting Apparatus, of which the following is a specification.

My invention relates to safety devices for hoisting apparatus, the object being to provide simple and effective means for preventing ropes from slipping off laterally from a block from which they are suspended.

The invention consists of the combination, with a block or support around which suspending-ropes are adapted to pass, of levers pivotally secured at opposite sides of the block, having arms over which the suspending-ropes are adapted to pass.

The invention also consists of certain detail features of construction, which will be fully described hereinafter in connection with the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a front elevation of a block equipped with my safety devices and having ropes passing around and suspended by a block and tackle. Fig. 2 is a side elevation of the block and its safety devices detached from the block and tackle, and Fig. 3 is a vertical section of the block.

The reference-numeral 1 designates a block and tackle provided with a suspending-hook 2.

3 designates the block, to which the safety devices are applied, said block being suspended from the tackle and having secured to each of its sides a bail 4. These bails serve as pivotal supports or fulcrums for levers 5, each comprising an inwardly-projecting arm 6 and an upwardly-projecting curved guard-arm 7. The upper surface of the block 3 is formed with horizontally-aligned recesses 8, adapted to receive the arms 6 of the levers, as best shown in Fig. 3.

The numeral 9 designates ropes or cables,

which are passed around the ends of the block 3, as shown in Fig. 1, and over the arms 6 of the levers 5.

The function of the safety-levers is illustrated in Fig. 1. When the ropes 9 are attached to a load to be hoisted, the weight of the load causes the coils of the ropes 9 to hold the arms 6 within the recesses 8 of the block, and as long as the arms 6 are thus confined the curved guard-arms 7 are held in the upright position shown at the right-hand end of the block in Fig. 1, thus preventing the rope from slipping off of the end of the block. When tension upon the ropes 9 is released by the removal of the weight or load, the levers 5 may be tilted outward to release the rope, as shown at the left-hand end of the block 3 in Fig. 1. The block 3 may be provided with a hook 10, as shown in Fig. 1; but this is a supplemental suspending means and forms no part of the invention.

I claim—

1. The combination with a block adapted to support suspending-ropes; of safety devices comprising levers pivotally supported at opposite sides of the block and having inwardly-extending arms over which the ropes are adapted to pass, and upwardly-projecting arms serving as guards to prevent lateral displacement of the ropes.

2. The combination with a hoisting device, of a block suspended therefrom and having recesses on its upper surface; bails secured to the sides of the block; levers fulcrumed on said bails and each comprising an inwardly-extending arm adapted to enter one of the recesses of the block, and an upwardly-extending guard-arm.

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

JOHN WILLIAM BOZARTH.

Witnesses:

E. R. DINWIDDIE,
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