J. W. CARLSON.

PULLEY BLOCK.

APPLICATION FILED APR. 25, 1908.

907,004. Patented Dec. 15, 1908.

Fig. 2.

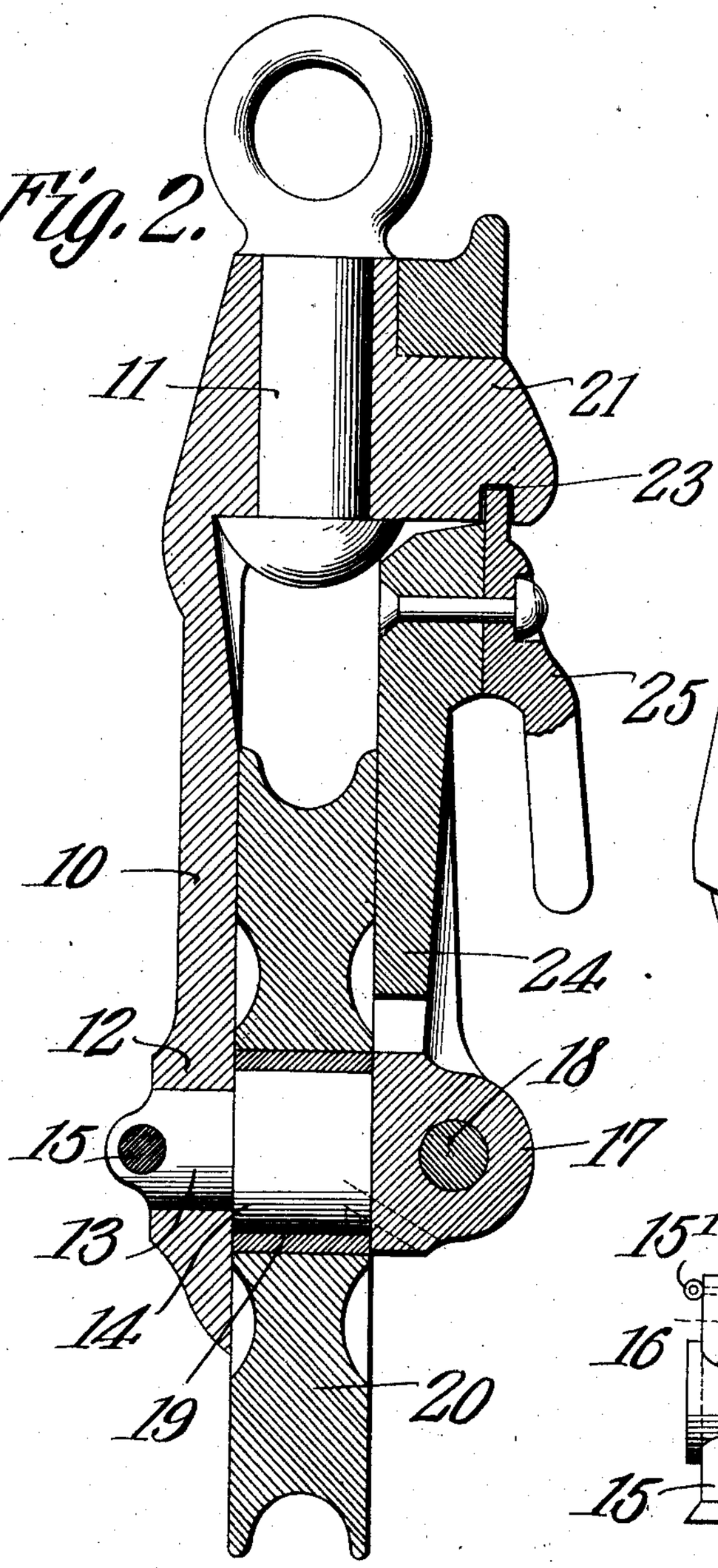


Fig. 1.

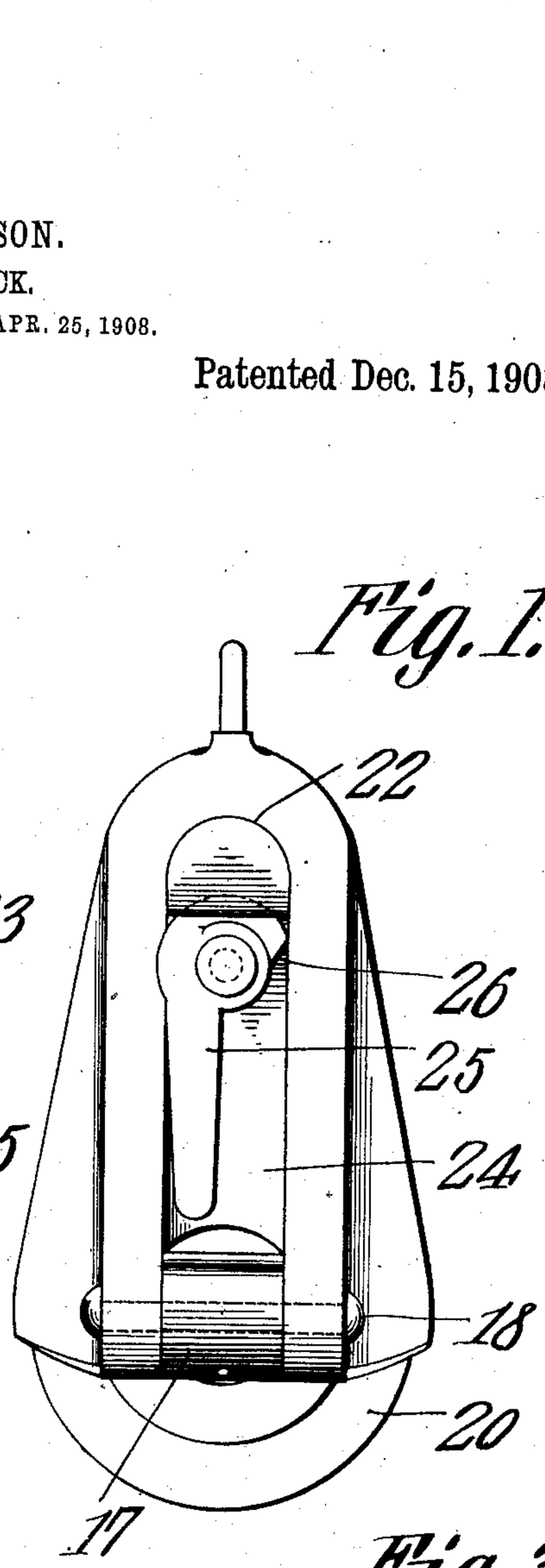
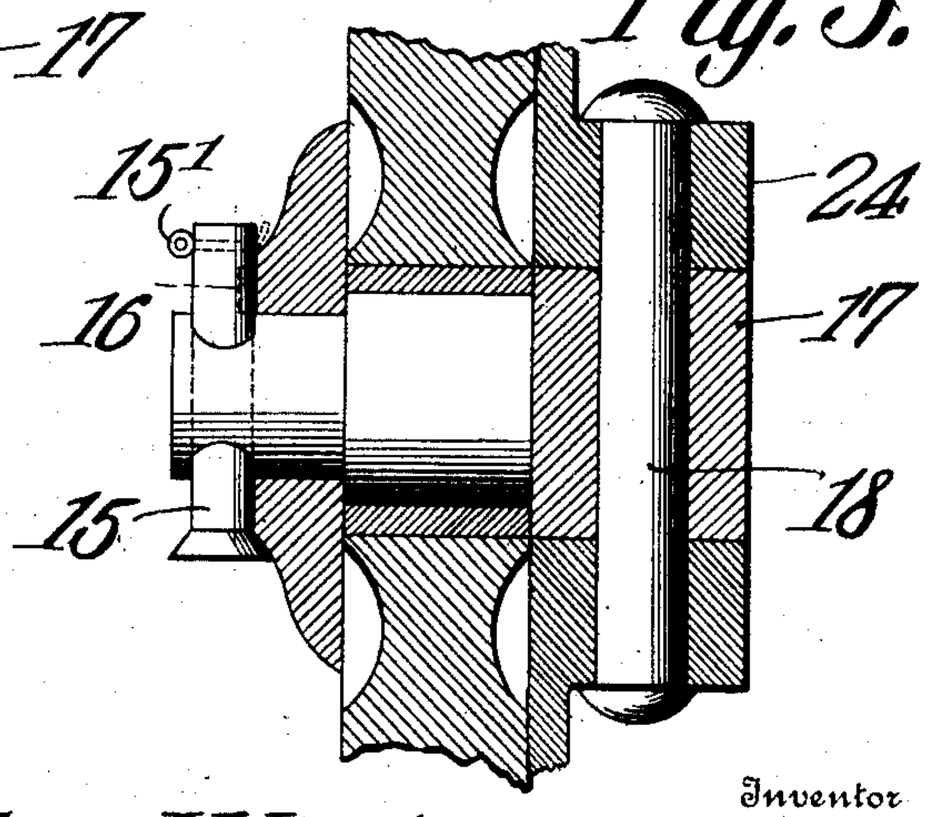


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN W. CARLSON, OF CLIFTON, OREGON, ASSIGNOR OF ONE-HALF TO ROBERT MANARY, OF YACOLT, WASHINGTON.

PULLEY-BLOCK.

No. 907,004. Specification of Letters Patent. Patented Dec. 15, 1908.

Application filed April 25, 1908. Serial No. 429,261.

To all whom it may concern:

Be it known that I, JOHN W. CARLSON, a citizen of the United States, residing at Clifton, in the county of Clatsop and State of Oregon, have invented a new and useful Pulley-Block, of which the following is a specification.

This invention relates to pulley blocks and more especially those known as snatch blocks.

The object of this invention is to provide an improved form of block wherein the rope is held in the sheave by the rotation of one portion of the block.

A further object of the invention is to provide a secure means of fastening this portion in proper position.

The invention consists in certain novel features of details and combination of parts, hereinafter fully described, illustrated in the accompanying drawing and set forth specifically in the claims.

In the accompanying drawing:—Figure 1 is a side elevation of the block. Fig. 2 is a longitudinal section therethrough. Fig. 3 is a partial cross section therethrough.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

The body of the device is indicated by the numeral 10 and is provided at its upper end with a recess in which is located a swiveled eye 11. It is obvious that this eye may be replaced by the usual hook used in such devices. At the lower end of the body portion there is provided a fixed portion 12 having an opening therethrough to receive a sheave pin 13 which is shouldered as indicated at 14. The sheave pin 13 is held firmly in the fixed portion of the body by means of a pin 15, which is secured in position by the cotter 15′.

In order to prevent the sheave pin 13 from turning in the portion 12 there is provided on that portion suitable lugs as indicated at 16 in Fig. 3. At the opposite end of the sheave pin 13 from the retaining pin 15 there is formed a lug 17 wherein is held a pin 18 extending transversely across the body portion at the end 12. Upon the sheave pin 13 there is held a metal bushing 19 and upon this bushing is carried a sheave 20.

The upper end of the body 10 is provided with a lug 21 the top of which is semi-circular as shown at 22. The lug 21 is provided at its lower edge with a segmental recess 23.

Mounted upon the pin 18 is a pivotal arm 24 arranged to embrace the lug 21, the inner part of said arm being of the same thickness as the lug. Upon the arm 24 is pivotally held a handled cam 25 the same being pivoted concentric with the recess 23 when in its locked position. The handled cam 25 has a portion cut away as indicated at 26 so that when the handle is thrown up the arm 24 will be released from the arm 21 and permitted to move outward therefrom.

In the operation of the device when it is desired to thread a rope therein it is simply necessary to swing the handled cam and move the arm 24 out. The rope may then be inserted and the device closed ready for operation.

I have thus invented a durable and efficient device for the purpose specified wherein the same may be readily released for the insertion of the rope.

What is claimed is:—

1. In a pulley block, a body portion, a sheave pin held thereon, an arm pivotally mounted on said sheave pin and means for forcing said arm laterally against said body portion and locking it in position.

2. In a pulley block, a body portion, a sheave pin held thereon, means for holding said sheave pin from rotary movement, an arm pivotally mounted on said sheave pin, and means for forcing said arm laterally against said body portion and locking it in position.

3. In a pulley block, a body portion, a sheave pin held thereon provided with a rigid end extending through said body portion, a pin extending through said sheave pin, lugs formed on said body portion to prevent the rotation of said sheave pin when in engagement with said pin, an arm pivotally mounted on said sheave pin, and means for forcing said arm laterally against said body portion and locking it in position.

4. In a pulley block, a body portion provided with a lug at the upper end thereof, a pin held on said body portion, an arm pivotally mounted on said sheave pin, means for forcing said arm against the body portion and locking it in position, said means being carried on the arm and arranged to coact with the lug on the body portion.

5. In a pulley block, a body portion provided with a lug at the upper end thereof having a segmental recess at the lower edge

of said lug, a sheave pin held on said body portion, an arm pivotally mounted on said sheave pin, and a cam arranged to engage said recess and force said arm against said body.

6. In a pulley block, a body portion provided with a lug at the upper end thereof, said lug being provided with a recess at the lower side thereof, a sheave pin mounted on said body portion, means for preventing the rotation of said sheave pin, an arm pivotally mounted on said sheave pin, and a handled cam carried on said arm arranged to engage the recess in said lug and force said arm against said body.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN W. CARLSON.

Witnesses:

I. M. PAINTER,

FRANK SPITTLE.