

No. 776,052.

PATENTED NOV. 29, 1904.

J. J. GEARY.
SNATCH BLOCK.

APPLICATION FILED APR. 4, 1904.

NO MODEL.

Fig. 1.

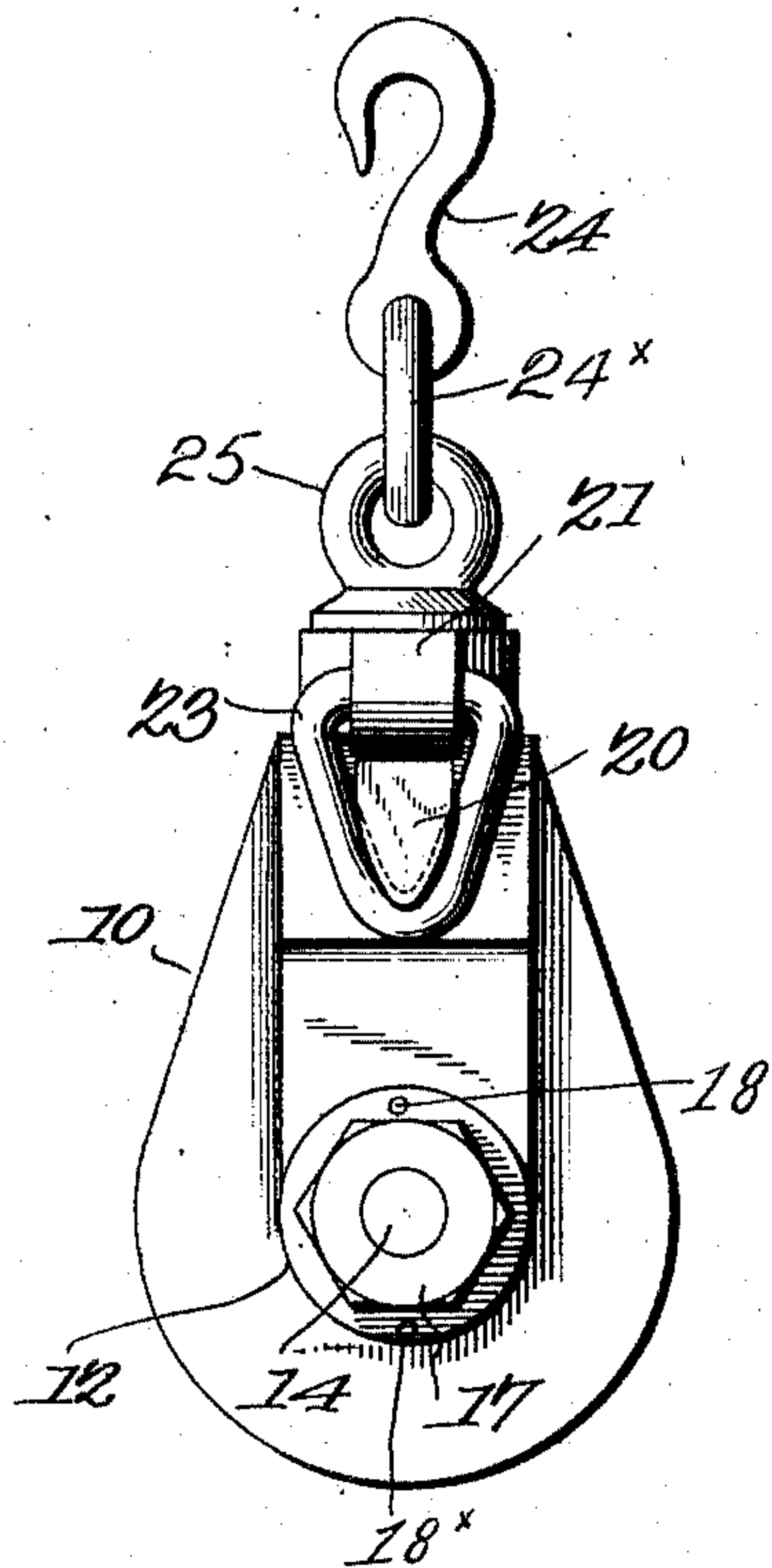


Fig. 2.

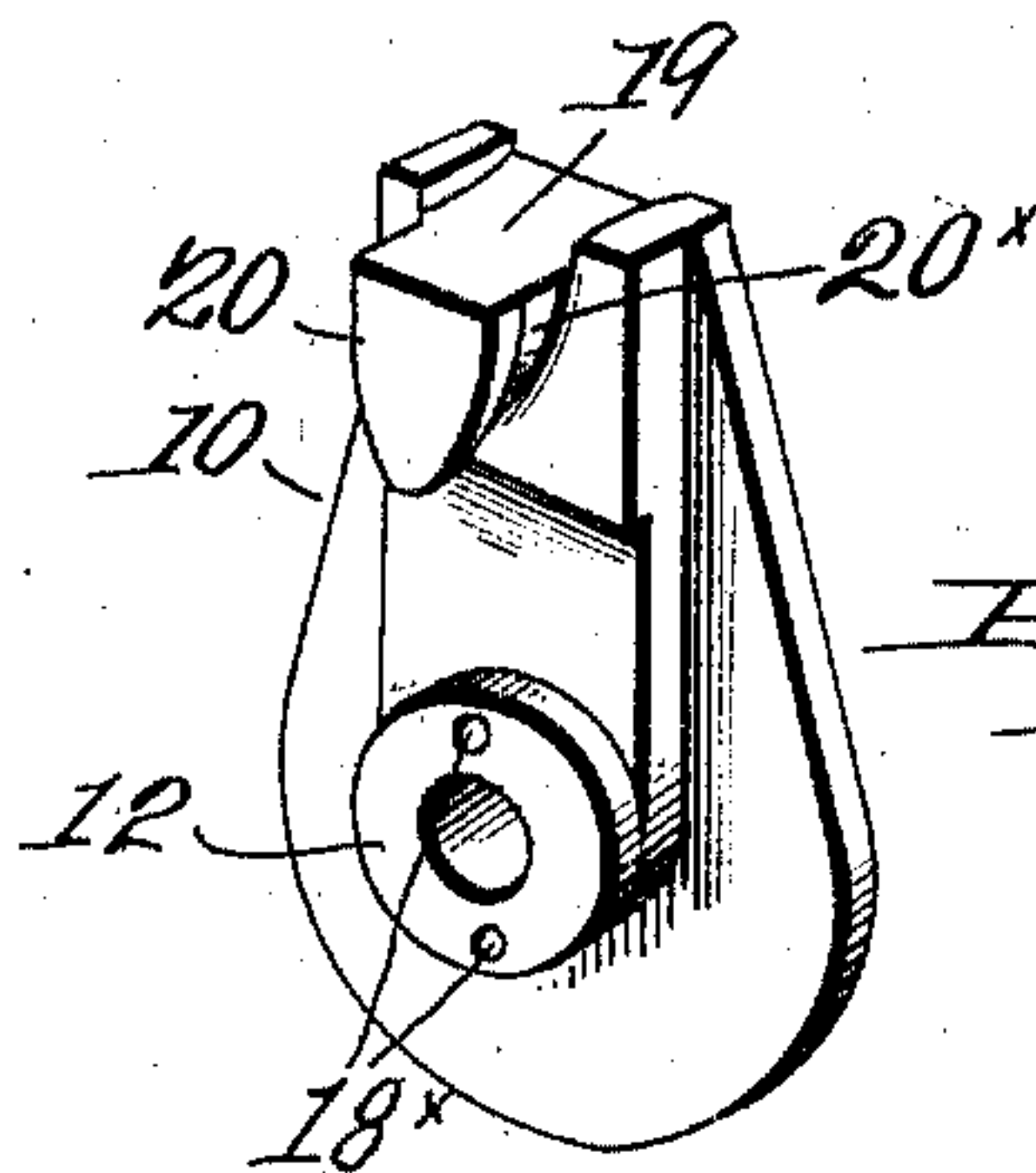
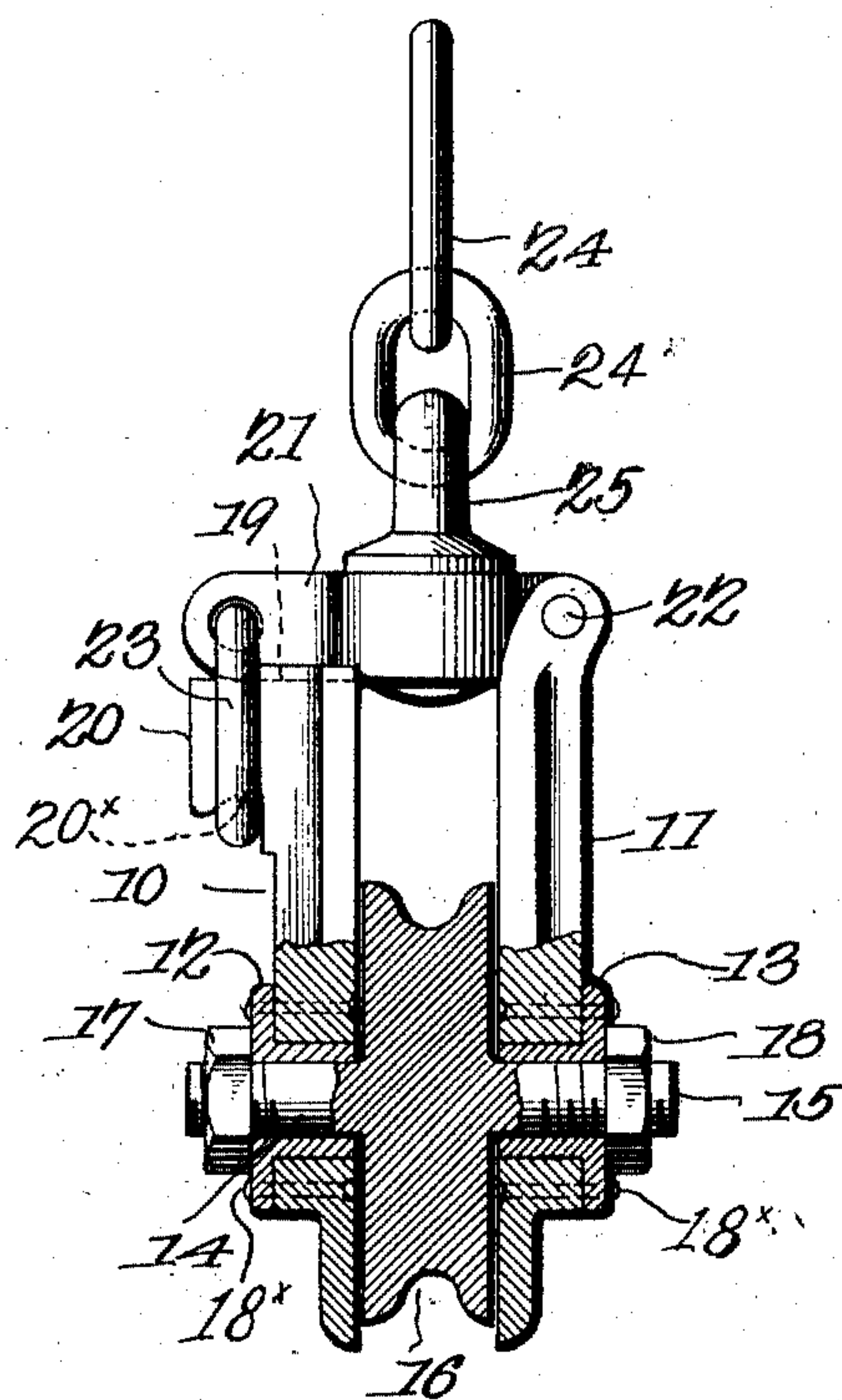


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

JAMES J. GEARY, OF MARSHLAND, OREGON.

SNATCH-BLOCK.

SPECIFICATION forming part of Letters Patent No. 776,052, dated November 29, 1904.

Application filed April 4, 1904. Serial No. 201,572. (No model.)

To all whom it may concern:

Be it known that I, JAMES J. GEARY, a citizen of the United States, residing at Marshland, in the county of Columbia and State of Oregon, have invented a new and useful Snatch-Block, of which the following is a specification.

This invention relates to snatch-blocks, and has for its object to improve the construction and produce a device of this character which may be cheaply manufactured and possessing great strength and durability, and which may be easily and quickly opened and closed.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, there is illustrated a preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages.

In the drawings thus employed, Figure 1 is a side elevation. Fig. 2 is a front elevation, partially in section, of one of the improved devices. Fig. 3 is a perspective view of the lug-bearing cheek-plate detached.

The improved device comprises spaced cheek-plates 10 11, having transversely-aligned apertures, provided, respectively, with bushings 12 13, forming bearings for studs 14 15 of a cable-sheave 16, the studs having threaded extremities for receiving holding-nuts 17 18. The cheek-plates 10 11 will preferably be of cast-steel and the bushings of softer metal or metallic compounds, such as phosphor-bronze or the like, and secured, as by rivets 18^x, passing through flanges on the bushings exteriorly of the cheek-plates and through the cheek-plates. The sheave 16 and its studs 14 15 will preferably be of one single cast-steel casing, so that the bearing-surfaces are greatly ex-

tended and the consequent wear diminished by one-half over a structure having a stationary stud or shaft with the sheave rotating thereon, as in devices of this class as ordinarily constructed. This is an important feature of the invention and materially increases its value and efficiency. A sheave thus constructed will resist wear and the severe strains to which this class of devices are subjected, especially when employed in lumbering and similar operations.

The free end of the cheek-plate 10 is formed with a recess 19 and with a lateral angular lug 20, the latter having concaved lower and side surfaces 20^x, and the cheek-plate 11 is provided with a bar 21, pivoted thereto, as at 22, and extending over the recessed end of the member 10 and engaging the same. The free end of the bar 21 is provided with link 23, swinging therefrom and engaging the concaved lug 20, the link being formed in angular shape to conform to the lug.

The draft-hook 24 is connected, through the means of a link 24^x, with an eye 25, which has a swiveled connection with the bar 21, thus to permit the block to turn at any desired angle irrespective of the draft-hook.

By this simple arrangement it will be obvious that a very convenient, strong, and durable snatch-block is produced in which the cable may quickly be inserted and from which it may be removed by merely detaching the link 23 from the lug 20, while at the same time the link will be effectually prevented from accidental displacement by reason of the concave form of the lower and side surfaces of the lug while the strains are applied, as will be obvious. The recess 19 is also an important feature of the invention, as by that means lateral movement of the bar 21 is prevented and the link 23 and stud 20 also relieved from lateral strains.

Having thus described the invention, what is claimed is—

1. A snatch-block comprising cheek-plates, a sheave mounted for rotation between the plates, a rigid lug carried by one cheek-plate, a bar pivotally connected with the other cheek-plate, and a link carried by the bar to engage the lug.

2. A snatch-block comprising cheek-plates,

a sheave mounted for rotation between the plates, a lug carried by one of the plates and provided with grooved sides, a bar pivoted to the other plate, and a link carried by the bar and adapted to engage the grooved portions of the lug.

3. A snatch-block comprising a pair of cheek-plates, a sheave mounted between the plates and having integral studs working in bearings in the cheek-plates, a lug projecting laterally from one of the cheek-plates, a bar pivotally connected with the other cheek-plate, and a link carried by the bar and adapted to engage the lug to hold the cheek-plates assembled.

4. A snatch-block comprising a pair of cheek-plates, a sheave mounted for rotation between the plates, a rigid lug projecting from one of the plates, a bar pivoted to the other plate, a swiveled eye carried by the intermediate portion of the bar, and a pivoted link carried by the free end of the bar to hold the cheek-plates properly assembled.

5. A snatch-block comprising a pair of

cheek-plates, a sheave mounted for rotation between the plates, a rigid lug projecting from one plate, a bar pivotally connected to the other plate, a swiveled eye carried by the bar, a link carried by the free end of the bar to hold the plates assembled, and a draft-hook connected with the eye.

6. In a snatch-block, a pair of cheek-plates provided with detachable bushings, a sheave mounted between the plates and provided with studs engaging the bushings, nuts carried by the outer ends of the studs to hold the plates against disconnection, a lug carried by the outer face of one plate, a bar pivoted to the other plate, a link carried by the free end of the bar to engage the lug, and a swiveled eye carried by the bar.

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

JAMES J. GEARY.

Witnesses:

E. W. CONYERS,
C. A. HIMPEL.