

C. C. DE WITT.  
WIRE ROPE CLAMP.  
APPLICATION FILED JAN. 16, 1909.

928,367.

Patented July 20, 1909.

Fig. 1.

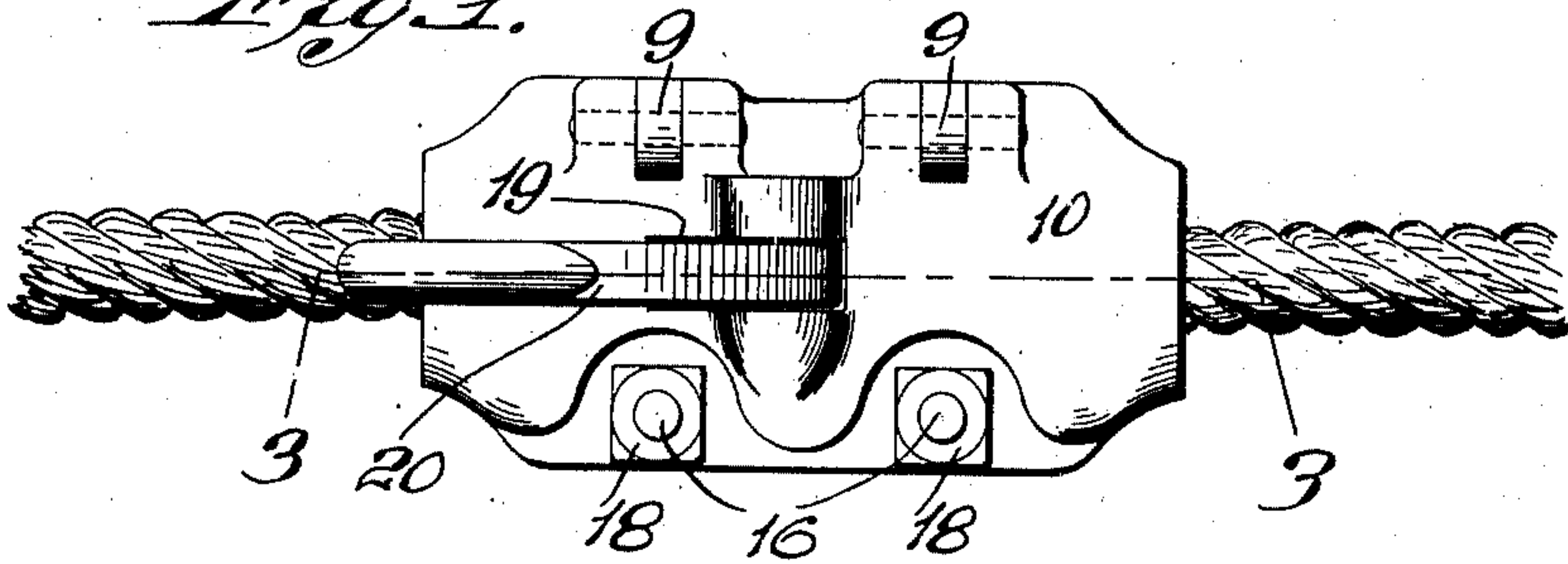


Fig. 2.

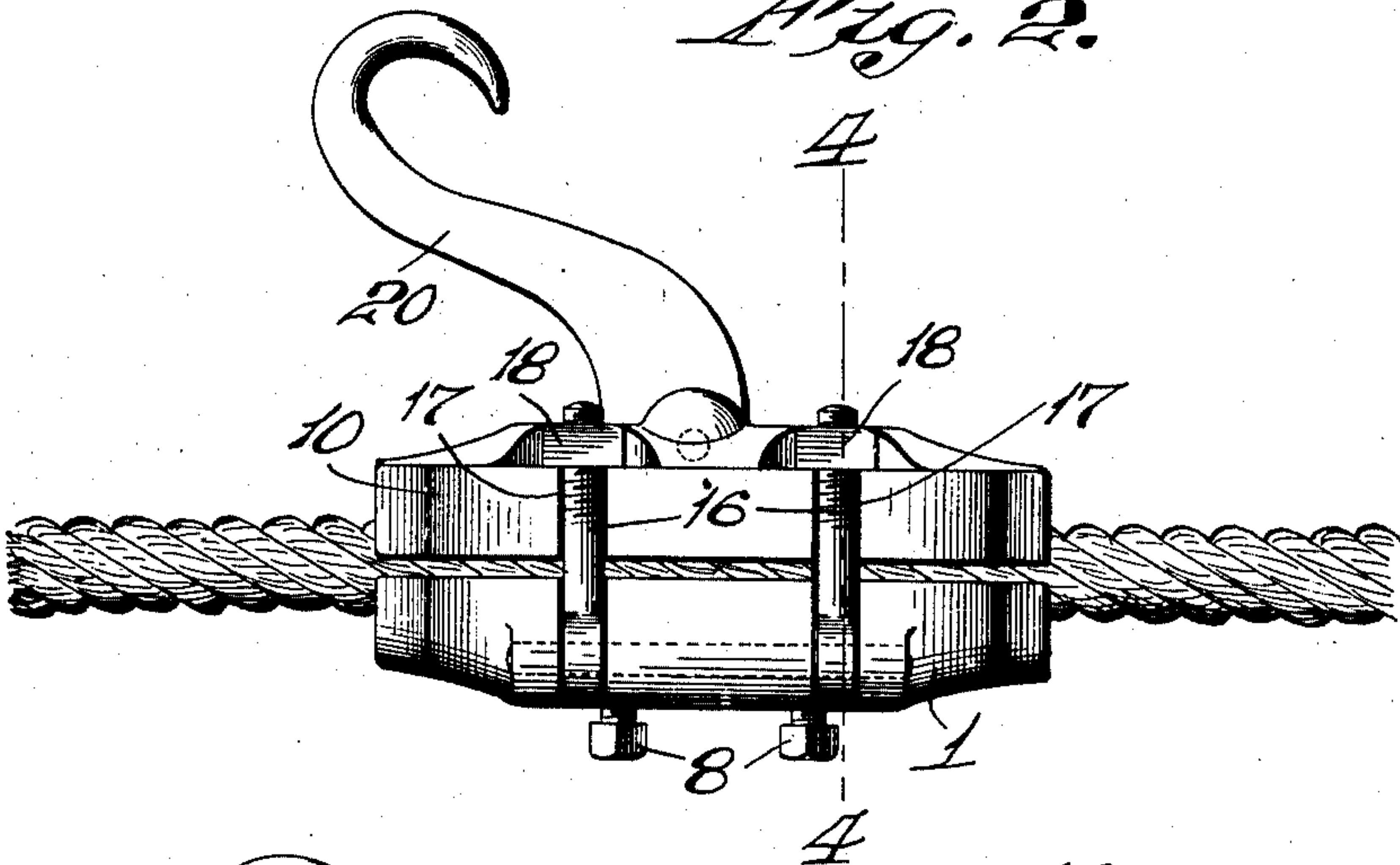


Fig. 3.

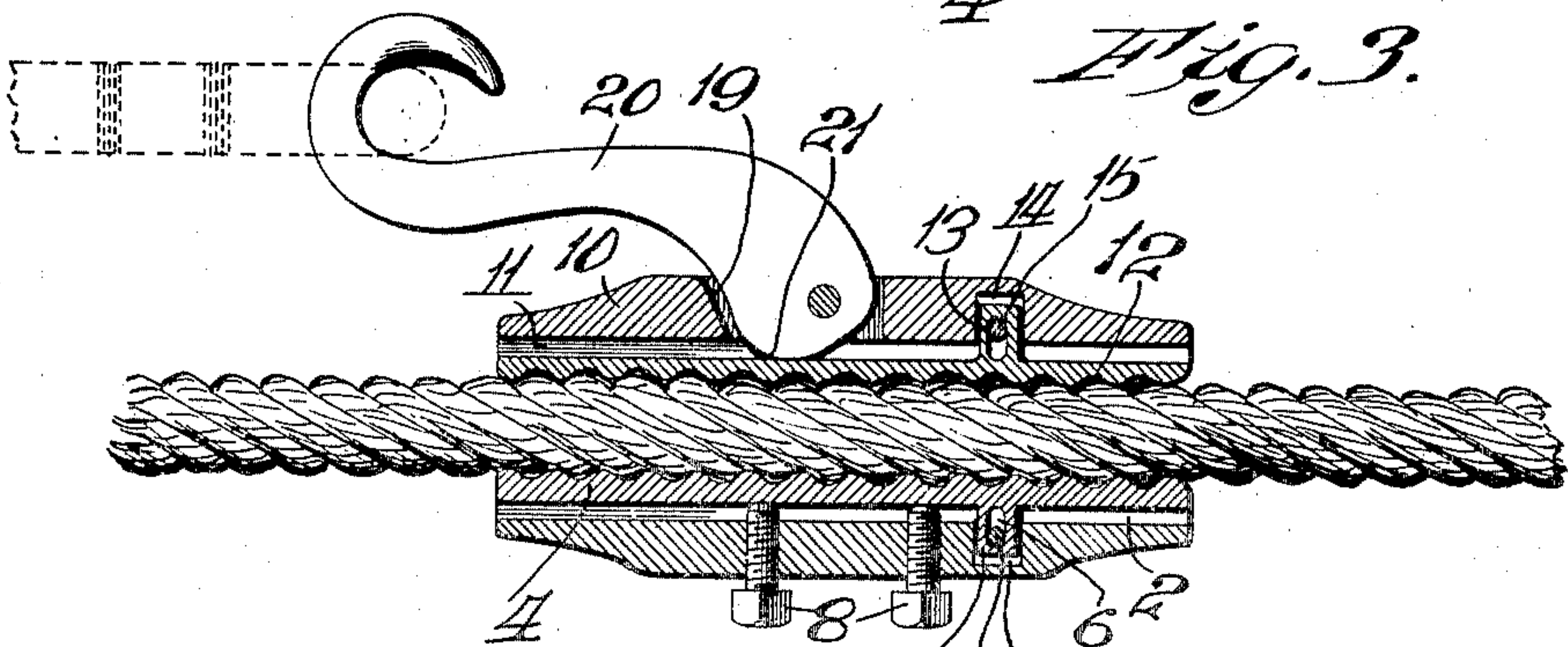
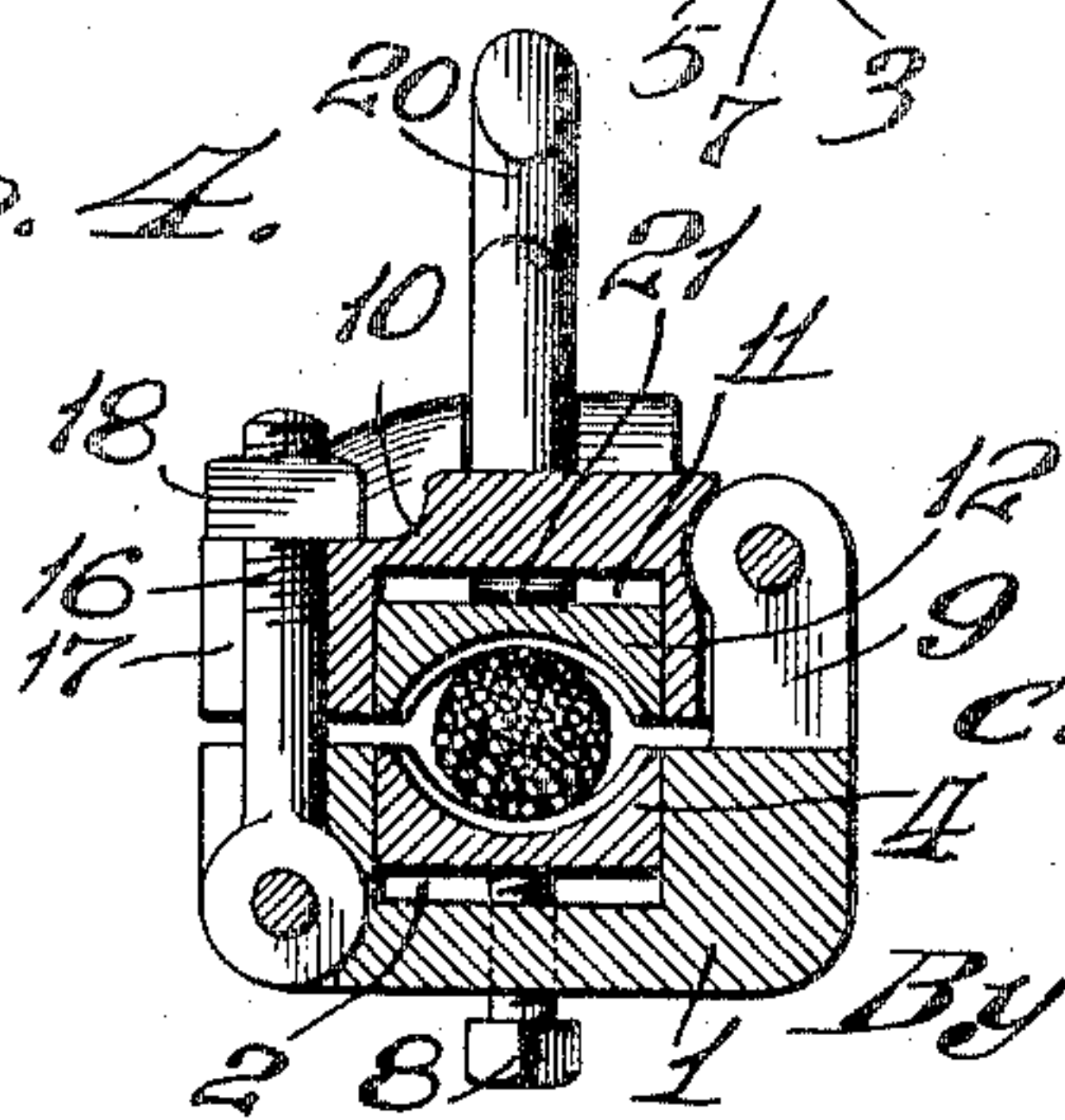


Fig. 4.



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# UNITED STATES PATENT OFFICE.

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## WIRE-ROPE CLAMP.

No. 928,367.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed January 16, 1909. Serial No. 472,575.

*To all whom it may concern:*

Be it known that I, CLINTON C. DE WITT, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Wire-Rope Clamps, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to a wire rope clamp, my object being to construct a simple, inexpensive device which can be readily clamped on to a wire rope or cable, thus providing means for attaching a second rope or cable, which second rope or cable is used as a stay or guy rope for the purpose of strengthening or taking up the slack in the rope or cable on which the clamping device is located.

To the above purposes my invention consists in certain features of novelty hereinafter described, claimed and shown in the accompanying drawings, in which—

Figure 1 is a plan view of a clamp of my improved construction; Fig. 2 is a side elevation of the clamp; Fig. 3 is a vertical section taken on the line 3—3 of Fig. 1; and Fig. 4 is a cross section taken on the line 4—4 of Fig. 2.

Referring by numerals to the accompanying drawings, 1 designates the lower member of the clamp which comprises a rectangular block in the top face of which is formed a longitudinally disposed groove 2, and extending downward from said groove is a recess 3; occupying the groove 2 is a clamping plate 4, the top surface of which is concave in cross section and said concave face being corrugated, and formed integral with this plate 4 is a lug 5 which enters the recess 3; this lug 5 is provided with a transverse slot 6 through which passes a pin 7, which latter is seated in the sides of the block 1. This construction unites the plate 4 and block 1, and permits said plate 4 to be adjusted vertically relative to said block 1 by means of adjusting screws 8 which pass through the central portion of the block 1 and bear against the under side of the plate 4.

Formed integral with the top of the block 1, and on one side thereof, is a pair of ears 9, and hinged thereto is the top member of the clamp which member comprises a block 10 in the under side of which is formed a longitudinally disposed groove 11; occupying

this groove 11 is a clamping plate 12 which is practically a duplicate of the clamping plate 4, and formed integral with said plate 12 is a slotted lug 13 which enters the corresponding recess 14 formed in the under side of the block 10. A pin 15 is seated in the block 10 and passes through the slot in the lug 13, which construction holds the clamping plate 12 in the block 10 and permits said clamping plate to move vertically under the groove 11. A pair of bolts 16 are hinged to the side of the block 1, and the upper portions of said bolts are adapted to occupy notches 17 formed in the side of the block 10 opposite the side hinged to said block 1 and the upper ends of the bolts 16 receive nuts 18. This construction provides means whereby the blocks 1 and 10 are locked to one another and such construction permitting said blocks to be readily swung apart when desired.

Formed through the central portion of the block 10 is a vertically disposed slot 19, and projecting therethrough is the rear end of a hook 20 which is pivotally mounted on the block 10, and the rear portion of said hook is provided with an eccentric lug 21, which normally bears against the top side of the clamping plate 12. This eccentric lug is so arranged that when the outer end of the hook 20 is engaged and moved toward the rope or cable on which the clamp is located, the plate 12 will be firmly clamped against the rope or cable and as a result said rope or cable will be tightly gripped between the plates 4 and 12.

When my improved clamp is applied to a wire rope or cable the nuts 18 are sufficiently loosened to permit the bolts 16 to swing out of the notches 17 and this permits the three parts of the clamp to be swung open and positioned upon the wire rope or cable. The bolts 16 are now reengaged in the notches 17 after which the nuts 18 are tightened to close the two parts of the clamp on the rope or cable, and the end of a guy wire or cable is now attached to the free end of the hook 20 and as said guy wire is tightened the hook 20 is swung upon its pivot pin in such a manner as that the lug 21 bears upon the rear side of the plate 12 and forces said plate against the wire rope or cable and as a result the device is very rigidly clamped upon said rope or cable. The clamping plate 4 may be adjusted in position by manipulating the screws 8, and both the clamping



plates 4 and 12 are held against longitudinal movement by the lugs 5 and 13 which engage in the recesses 3 and 14.

A clamp of my improved construction is simple, inexpensive, easily applied for use and when properly positioned very tightly clamps a wire rope or cable.

I claim:

1. A wire rope clamp comprising a pair of blocks hinged to one another, means whereby the free edges of said blocks are united, movable clamping plates carried by the blocks and a hook pivotally carried by one of the blocks and adapted to bear against the rear side of the clamping plate carried by said block.

2. A wire rope clamp comprising a pair of blocks hinged to one another, means whereby the free edges of said blocks are united, movable clamping plates carried by the blocks, a hook pivotally carried by one of the blocks and adapted to bear against the rear side of the clamping plate carried by said block, and means whereby the clamping plate carried by the opposite block may be adjusted.

3. A wire rope clamp comprising a pair of blocks hinged to one another, an adjustable gripping plate carried by one block, a

movable gripping plate carried by the opposite block, a movable member carried by said opposite block and normally bearing against the gripping plate carried thereby, and means whereby said hinged blocks are held together.

4. A wire rope clamp comprising a pair of blocks hinged to one another, means whereby the free edges of said blocks are united, movable clamping plates carried by the blocks and means carried by the blocks for moving the clamping plates toward one another to grip the rope or cable on which the clamp is located.

5. A wire rope clamp comprising a pair of blocks hinged to one another, a movable clamping plate carried by one of the blocks and a hook pivotally mounted on the block and adapted to bear against the rear side of the clamping plate, and means whereby said hinged blocks are held together.

In testimony whereof, I have signed my name to this specification, in presence of two subscribing witnesses.

CLINTON C. DE WITT.

Witnesses:

M. P. SMITH,  
E. L. WALLACE.