

D. D. BROWN.
CABLE STOPPER.

No. 108,101.

Patented Oct. 11, 1870.

Fig. 4.

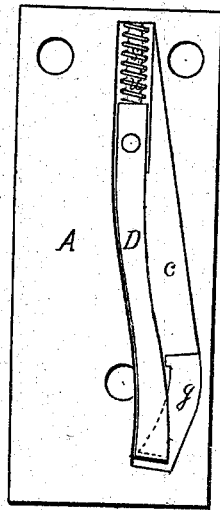


Fig. 1.

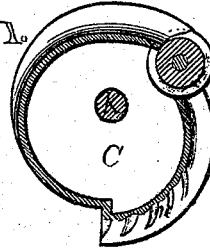


Fig. 3.

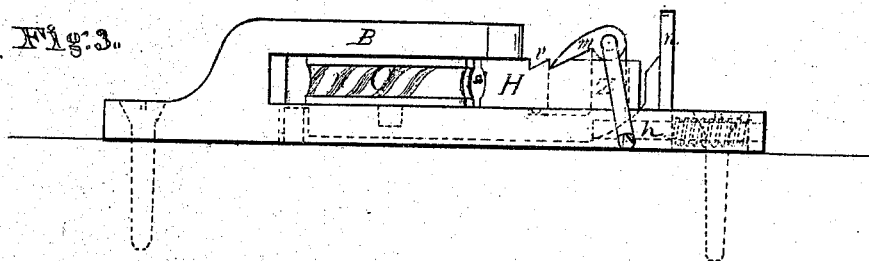
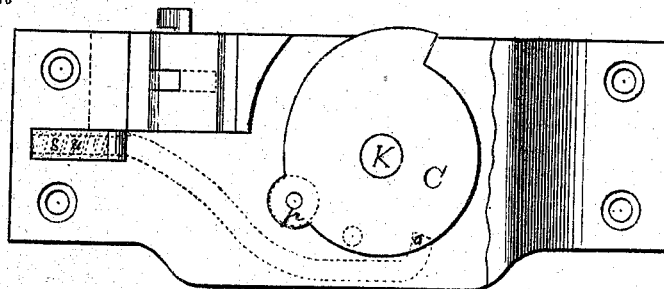


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

DOMINICK D. BROWN, OF OSWEGO, NEW YORK.

IMPROVEMENT IN CHOCKS FOR HOLDING ROPES.

Specification forming part of Letters Patent No. **108,101**, dated October 11, 1870.

To all whom it may concern:

Be it known that I, DOMINICK D. BROWN, of the city of Oswego, in the county of Oswego and State of New York, have invented a new and Improved Description of Chock for Holding Fast Ropes or Cordage, of which the following is a specification.

Figure 1 of the drawings is a representation of a side view of the eccentric used in my chock. Fig. 2 is a plan view of my invention. Fig. 3 is a longitudinal section, and Fig. 4 is a detail.

My invention has relation to means for clutching and holding the ends of ropes used in connection with the rigging of vessels and other like purposes; and it consists in the novel construction and arrangement of devices intended to serve as an efficient apparatus for the purpose named.

A of the drawings represents a base-plate cast or formed with a recess in its bottom, as shown at *c*, together with a circular groove, as shown at *g*, and a horizontal slot, as shown at *h*. Upon the upper surface of this base-plate, and usually cast therewith, is another or second plate, (marked B in the drawings.)

The letter C represents a cam-clutch arranged to rotate in the recess formed between the plates A and B. It is held in place and rotates around the pin K, which passes through its center, and has its ends firmly secured in the plates A and B, respectively. It has also a friction-roller, *p*, as shown. One side of this eccentric is usually corrugated, as shown at *n*, to aid in holding the rope in place.

The letter D represents a pitman arranged to work back and forth in the recess *c*. It has a hook, *o*, on its front end, adapted to engage with pin *r* on the cam *c*, as shown, for the purpose hereinafter mentioned. The rear end of this pitman D is turned upward, and, passing through the slot *h* of the bed-plate, forms a step or handle for the movement thereof. This handle is marked *p* in the drawings.

The letter *s* represents a rod arranged horizontally in the slot *h*, and passes through the handle *p*, furnishing a guide for the movement thereof back and forth at will.

The letter *u* represents a coiled spring arranged around this rod, and serves to aid in the movement of the handle *p* and the machinery therewith connected.

H represents a sliding block or clutch constructed with a series of notches on its upper

surface, (marked *v*,) and with a longitudinal slot, Y, adapted to receive and work upon the upright standard *z*, as shown. The front end of this block is constructed with a curved groove, as shown, upon nearly the same circle as the corrugated part of the cam, and operates in conjunction therewith to hold the rope in place.

The letter *m* represents a dog, pivoted as shown, and arranged to work in the notches *v* of the clutch H, which is designed for use in opening and closing the opening or throat *s'*, to adapt said throat to the size of the rope to be used.

The standard *z* has its lower end firmly attached to the upper surface of the bed-plate, and, after passing upward through the slot in the sliding block, is perforated at right angles therewith to receive the pivot-pin of the dog next mentioned.

The letter *m* represents a dog or pawl in the top of the standard *z*, adapted to work in the teeth *v* of the sliding block. The pivot-pin of the dog is extended outward, and bent in such manner as to form a crank, as shown.

My device is operated as follows, namely: The end of the rope to be clutched is passed from the right to the left through the throat or opening between the eccentric and the grooved end of the sliding block after said block has been adjusted by its pawl, so as to form a throat adapted to the size of the rope. The corrugated cam *c*, in conjunction with the block H, will then hold the rope securely. When the operator desires to release the rope, he forces the step *p* forward. This movement causes the hook *o* to engage with the pin *r*, and thereby throw the corrugated part of the cam forward, enlarging the throat and releasing the rope.

I claim as my invention—

1. The combination and arrangement of the corrugated cam C, sliding block H, and dog *m*, when constructed and operating as and for the purpose specified.

2. In combination with the cam C and sliding block H, the pitman D and the spring *u*, when constructed and operating as and for the purpose specified.

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Witnesses:

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