No. 670,129. Patented Mar. 19, 1901.

W. D. COMBS.

ROPE OR CORD FASTENING.

(Application filed June 19, 1900.)

(No Model.)

Fig. 1.

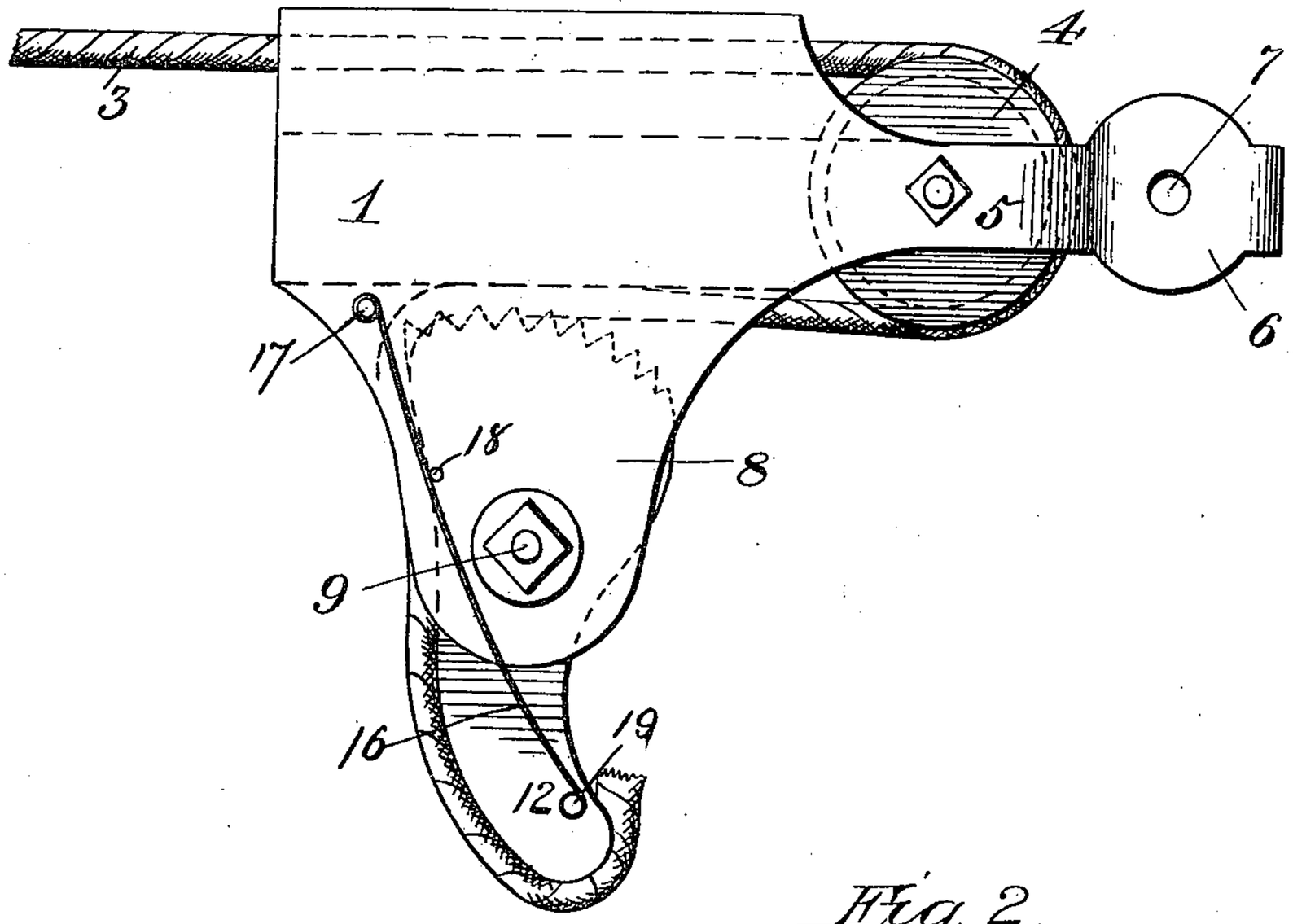
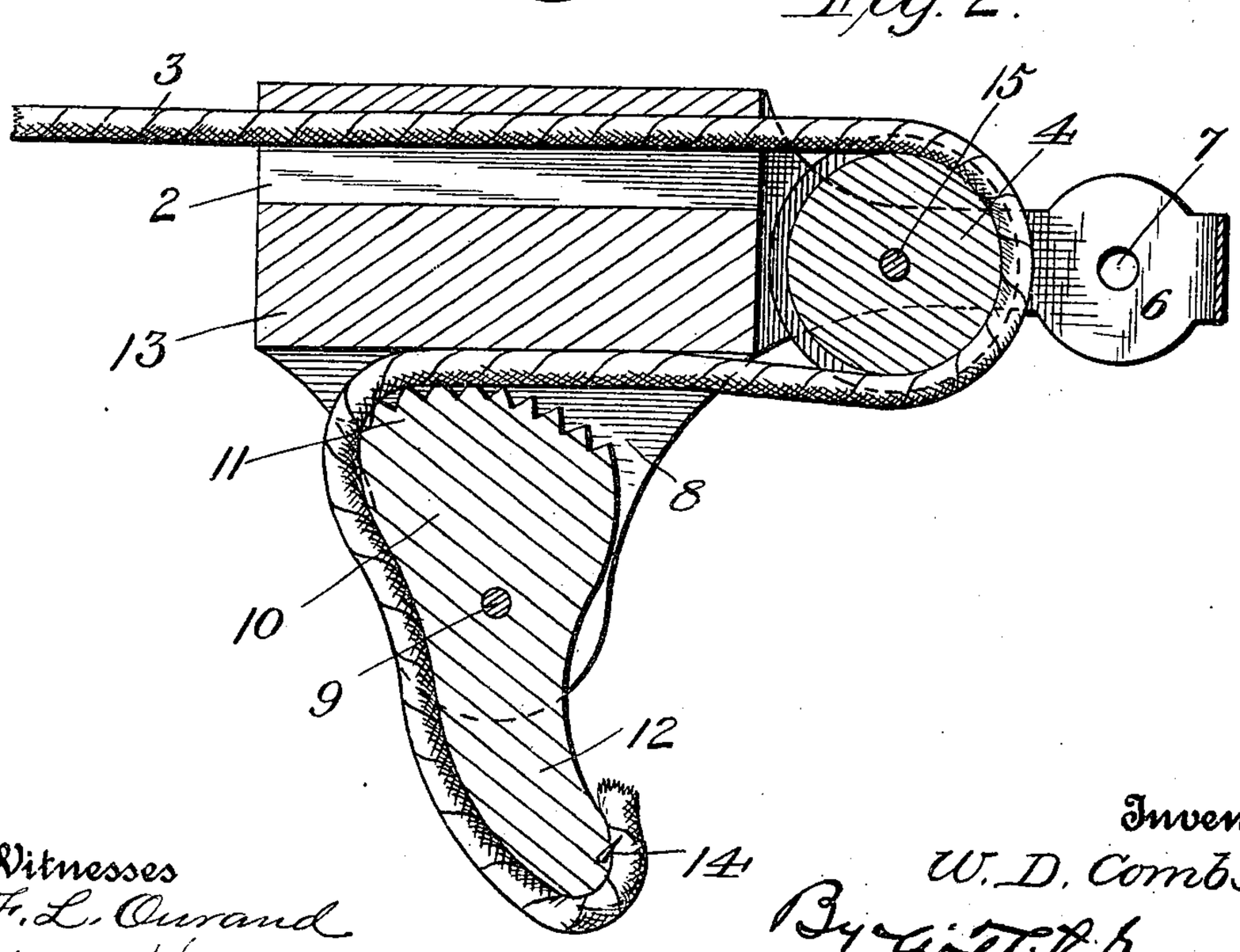


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM D. COMBS, OF CANON CITY, COLORADO.

ROPE OR CORD FASTENING.

SPECIFICATION forming part of Letters Patent No. 670,129, dated March 19, 1901.

Application filed June 19, 1900. Serial No. 20,825. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. COMBS, a citizen of the United States, residing at Canon City, in the county of Fremont and State of Colorado, have invented certain new and useful Improvements in Rope or Cord Fastenings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a securing device for ropes, cables, or the like; and it consists of certain novel features of combination and construction of parts, as will be hereinafter fully described and claimed.

The object of my invention is to provide a simple, cheap, and reliably-efficient device of the character specified which will be found reliable in the performance of its office of engaging and securing a rope or cable in order that the same may be anchored in the desired adjusted position.

My invention will be found especially desirable and advantageous for use in connection with clothes-lines and also for tightening a tent-rope and for many other similar purposes.

The preferred construction will be illustrated in the accompanying drawings, of which—

Figure 1 is a side view of my invention complete as applied to use. Fig. 2 is a central section of Fig. 1, illustrating the interior construction of the several parts.

In order to conveniently designate the parts of my invention and their coöperating accessories, numerals will be employed, of which 1 indicates the body portion of my securing device, which may be made of any preferred shape, though I have shown it somewhat oblong and provided with the bore or opening 2, through which the rope or cable 3 may extend into engagement with the pulley 4, pivotally mounted between the end extension or bracket 5, which latter may be separately formed or may comprise an integral part of the body 1. The bracket 5 is continuous beyond the pulley 4 and forms the anchoring-terminal 6, having the aperture 7, by means of which the device may be secured in any desired location, as by passing a suitable nail or screw through the aperture 7 into a post, if the device is used in connection with a clothes-line, though it will be understood that said aperture may receive a rope or wire, whereby the device may be readily anchored in its operative position.

Upon one side of the body-section 1 I provide a lateral extension comprising the ears 8, between which I pivotally secure, as by the bolt 9, the locking-clamp 10, the inner end of which is provided with the gripping serrations 11, while the outer end thereof is provided with the controlling-handle 12. By means of the handle 12 the end of the rope 3 may be tightly clamped against the interior rib or solid section 13 of the body, and since said end is provided with the gripping serrations 11 the rope or cable will be reliably secured in an adjusted position. It will be seen that the serrated end 11 of the clamp 10 is cam-faced and that the clamp 10 may be readily moved, so that the end of the rope or cable may be easily entered between said end and the solid portion 13, when by moving the handle 12 the cam-faced extension, with its accompanying serrations, will be brought to bear upon the rope, and thus secure it tightly in position. If desired, the face of the handle adjacent to the rope and also the free end of said handle may be slightly grooved in order to insure that the rope or cable will be more readily held in place.

In Fig. 2 I have shown how the free end of the rope may be readily secured into engagement with the end of the handle, inasmuch as I have provided the point or sharpened stud 14, preferably located in the center of the groove and properly inclined, so as to engage the contiguous part of the rope and hold the same in the position illustrated in Fig. 2, and it is obvious that when the free end of the rope is thus secured a pull upon the rope will swing the end of the handle around in such a manner that the extended end of the cam-face 11 will be moved into close contact with the rope, and thereby secure the same in place, the point 14 preventing the rope from slipping while the handle is being moved.

I desire to construct my improved securing device without the securing-point 14 or with it, as I may deem most desirable in practice. It will be understood that the space between

the cam-faced serrations 11 and the solid portion 13 and the size of the opening 2 may be varied to accommodate the size of the cable or rope to be employed, while it is further obvious that the shape of the body may also be changed to best meet the requirements of the manufacturer. The pulley 4 being properly held in place by means of the bolt 15, said pulley may be readily removed and renewed when desired.

On Fig. 1 I have shown the handle 12 as provided with a spring 16, adapted to hold the handle normally outward or in such a position that the cam-face will be normally disposed in engagement with the rope or cable, as clearly shown by dotted lines. It will be understood that the spring 16 may be of any desired variety, though I have shown a spring formed of a piece of steel properly connected to the body portion or the ear 8 by means of the posts 17 and 18 or otherwise, while the free end of said spring extends outward and is attached to the handle 12 in any preferred way, as by the link section or post 19. By the arrangement just described it is obvious that since the end of the spring is thus anchored to the body or ear 8, as the case may be, the free end thereof being connected to the handle 12 will throw said handle in such position as to cause the cam-faced serrated edge to bite upon and secure the rope in position. When the spring is employed, it will perhaps be unnecessary to use the point 14, though both of said devices, if preferred, may be used at one time.

While I have described the preferred construction which may be adopted in producing my improved rope-clamping and cable-securing device, it will be understood that I desire to comprehend all such substantial equivalents thereof.

Believing that the construction and use of my improved securing device will be made fully apparent from the foregoing specification, considered in connection with the accompanying drawings, further reference to the details thereof is deemed unnecessary.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described securing device for ropes, cables or the like, comprising a body-section; a pulley carried by said body-section; a clamp having a serrated cam-faced inner end adapted to bear against a rope interposed between it and the body-section, said clamp having a handle provided with a groove and with a retaining-point located in said groove whereby when the rope is placed in the groove it will be engaged by said point and thereby cause the rope to operate the handle to clamp a portion of itself, all substantially as specified and for the purpose set forth.

2. A securing device for ropes, cables or the like, comprising a body portion having a pulley and a clamp coöperating with said pulley operatively mounted in said body, said clamp having a cam-faced serrated inner end and a handle portion provided with a groove and a point fixed in said groove and adapted to engage the rope and a spring secured to the body portion and adapted to bear against the free end of the handle whereby the said handle will be held in a normally-closed position all combined substantially in the manner specified and for the purpose set forth.

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

WILLIAM D. COMBS.

Witnesses:
WILLIS A. WATSON,
LEE OSBORN.