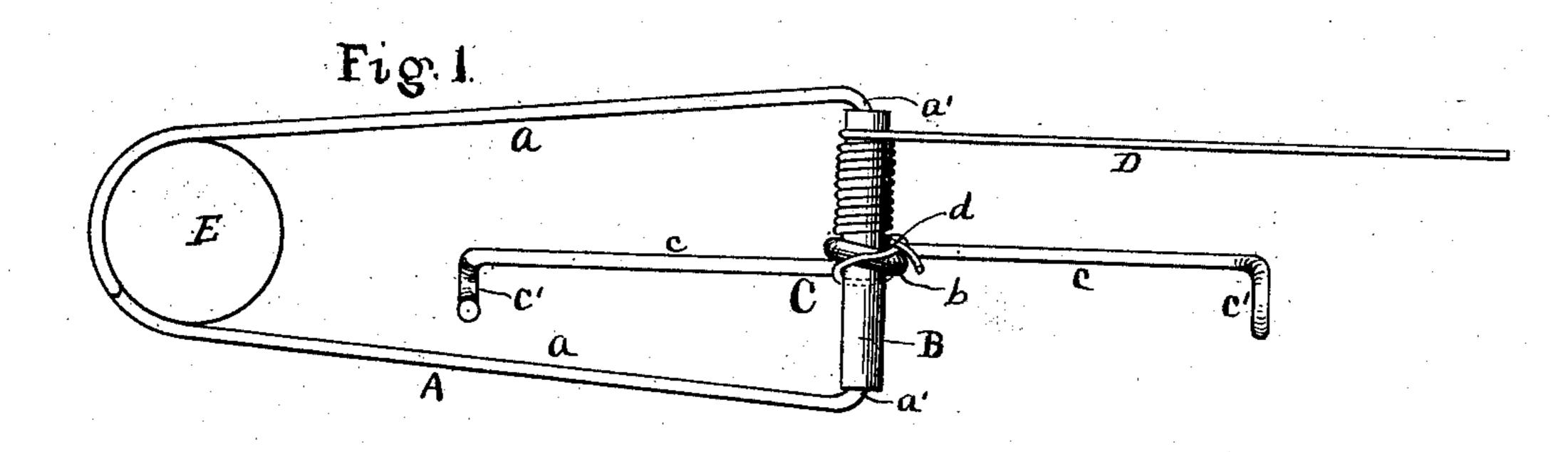
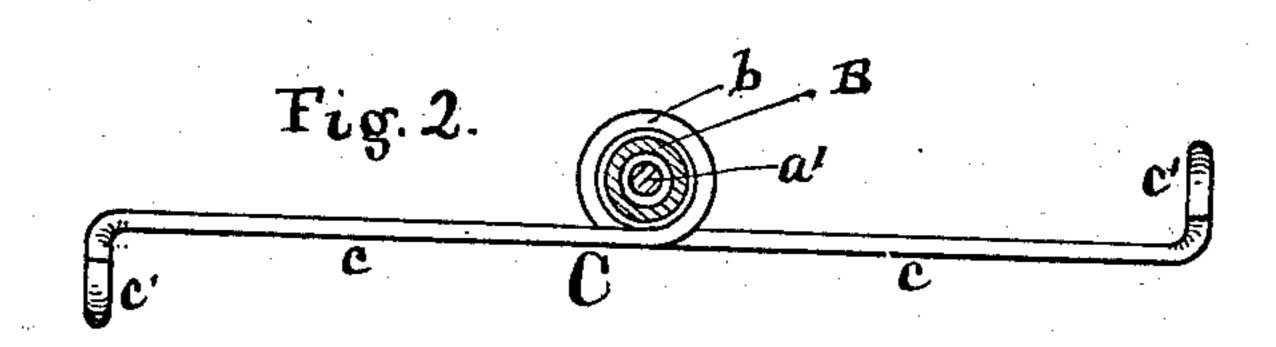
A. E. WHITE.

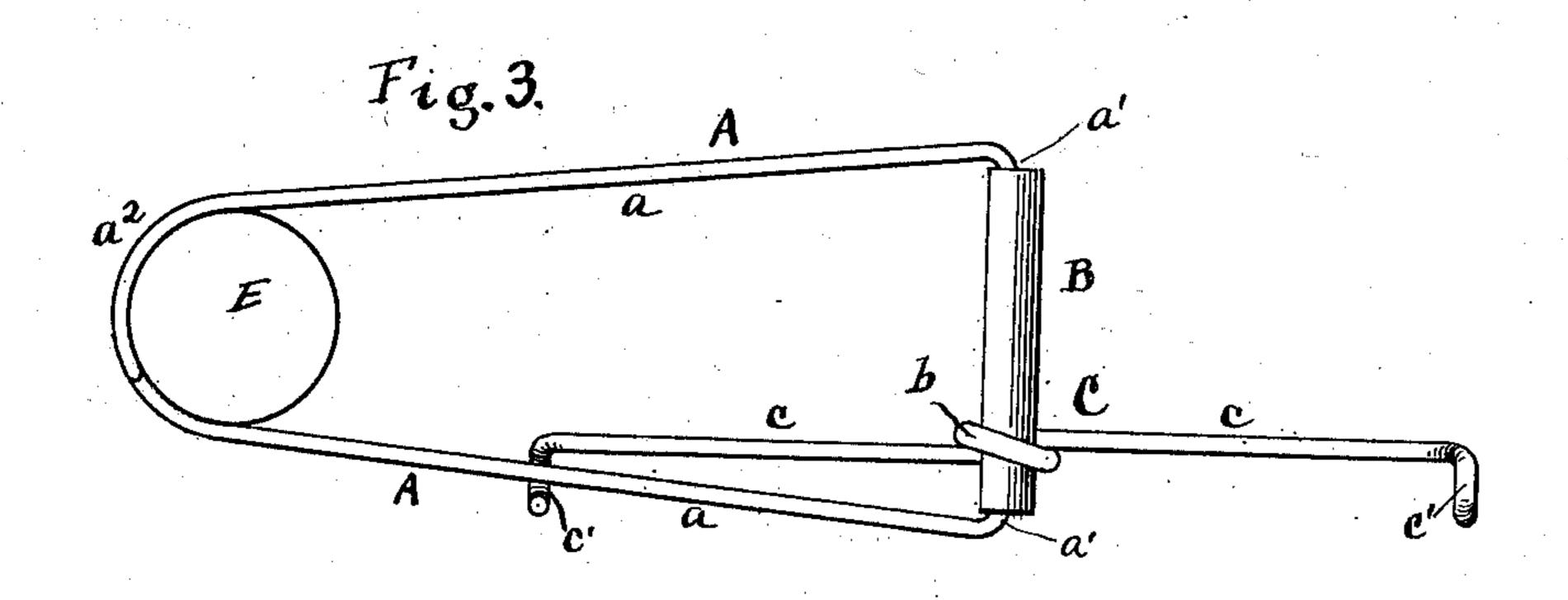
WIRE OR ROPE STRETCHER AND FASTENER.

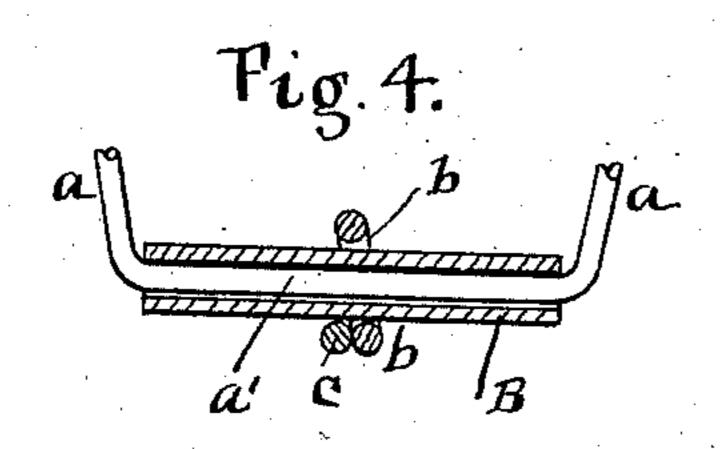
(No Model.)

(Application filed July 19, 1902.)









Witnesses. Oscarw. Bond Halker Bauning

Inventor: Arthur E White By Banning & Banning, Attys.

United States Patent Office.

ARTHUR E. WHITE, OF CHICAGO, ILLINOIS.

WIRE OR ROPE STRETCHER AND FASTENER.

SPECIFICATION forming part of Letters Patent No. 717,481, dated December 30, 1902.

Application filed July 19, 1902. Serial No. 116,177. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR E. WHITE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Wire or Rope Stretchers and Fasteners, of which the following is a specification.

The object of this invention is to construct a simple, reliable, and effective device by the use of which wire and rope can be easily and quickly drawn taut or stretched to the extent required and then readily fastened and locked and held in its taut or strained condition all by means of the same device or appliance.

The invention consists in the features of construction and combinations of parts hereinafter described and claimed.

In the drawings, Figure 1 is a top or plan view showing the device or appliance of the invention in use for drawing taut or stretching a wire or rope; Fig. 2, a cross-section of the windlass of the device or appliance; Fig. 3, a plan view showing the manner of interlocking the arm of the windlass with the frame when the wire or rope has been drawn taut or strained to the extent desired; and Fig. 4, a longitudinal section through the windlass of the device or appliance, showing the winding-sleeve in section with a portion of the frame in elevation.

The stretcher and fastener of the invention has a frame A, preferably made of a round rod of steel, iron, or other suitable material 35 bent into a shape to have side arms or bars aand a cross arm or bar a' and a circular end a^2 , though the form of the end a^2 is immaterial; but preferably this end is split, so that the two bars or sections thereof overlie each 40 other for spreading the end in attaching the device to a stake, post, or other fixed object for use. The cross arm or bar a' has mounted $\{$ thereon a tubular sleeve B, also preferably made of metal and constituting the winding-45 drum of the device or appliance, the cross arm or bar a' serving as a journal or axle for the drum-sleeve. The winding arm or lever C is mounted on the drum-sleeve B, so as to turn the drum-sleeve and wind thereon the wire, rope, 50 cable, or other cord. The lever or arm is preferably made of a round rod of metal and, as

shown, is mounted on the drum-sleeve by an eye or loop b, through which the drum-sleeve passes, leaving the arm or lever when not interlocked with the drum-sleeve free to turn 55 thereon. The arm or lever has its bars c extending equally each side of the drum-sleeve, and each bar terminates in a hook or open eye c', the hooks or eyes standing in opposite directions to each other, so that each hook or 60 eye can be brought into engagement with a side arm or bar of the frame and lock the arm or lever with the frame, so that the winding-drum sleeve will be held against reverse rotation.

In use a wire, rope, cable, or other cord D is drawn taut or strained by looping its end daround the drum-sleeve and across the loop b, as shown in Fig. 1, or otherwise securely fastened to the drum-sleeve and the arm or le- 70 ver, locking the drum-sleeve and the arm or lever together, so that by turning the arm or lever the drum-sleeve will be turned, winding thereon the wire, rope, cable, or other cord, as shown in Fig. 1. The extent of the 75 winding onto the drum-sleeve is one that will draw the wire, rope, cable, or cord taut or strained to the extent required, and when this point is reached the hook or open eye at one end of the arm or lever C is brought into 80 engagement with a side bar of the frame, holding the arm or lever and the drum-sleeve against back-turning from the strain of the wire, rope, cable, or cord and holding the wire, rope, cable, or cord in its taut or strained 85 condition. The release of the wire, rope, cable, or cord from its taut or strained condition, if desired for any purpose, is readily attained, it only being necessary to turn the arm or lever sufficiently to disengage its hook 90 or open eye from the side bar of the frame, when the arm or lever, and with it the drumsleeve, can be turned backward, unwinding from the drum-sleeve the wire, rope, cable, or cord, and if the wire, rope, cable, or cord be- 95 comes slack the slackness can be readily taken up, it only being necessary to turn the arm or lever to wind the wire, rope, cable, or cord farther onto the drum-sleeve, such winding continuing until the slackness is removed, 100 when the arm or lever can be again locked with the side bar of the frame. The frame

in use is to have its end a^2 caught over a stake or post E or other fixed object which will furnish a fulcrum for the draw or strain in winding the wire, rope, cable, or cord taut.

The device or appliance is exceedingly simple in construction, comprising, as it does, a frame, preferably made of a single rod or heavy wire or other material bent into a shape to have the side arms or bars and a cross arm o or bar forming the journal or axle of the drumsleeve and an end adapted to be engaged with a fixed object, and the drum-sleeve can be made of a piece of metal tubing, through which the frame can be slipped and then bent into 15 the shape shown or other suitable shape, and the arm or lever, made from a single piece of rod or heavy wire, can be looped around the drum-sleeve and its ends turned in opposite directions to form engaging hooks or opening-20 eyes, thus making the construction of the device as a whole very cheap and at the same time of a form well adapted for the purpose of drawing taut or straining a wire, rope, cable, or cord.

The device or appliance can be used for many purposes—such, for instance, as drawing and fastening a guy wire or rope, or drawing and fastening a fence-wire, or drawing and fastening a tent-rope, and for many other 30 uses and purposes. The frame can be caught at its outer end over a stake, pin, or post or other fixed object in position for the wire, rope, cable, or cord to be connected with the winding arm or lever and the winding-drum 35 sleeve, and by turning the winding arm or lever the wire, rope, cable, or cord will be wound onto the winding-drum sleeve very rapidly and in a uniform manner, and when the winding operation is completed by lock-

40 ing the winding arm or lever with a side bar of the frame or otherwise holding it in a fixed |

position the parts will be held against unwinding of the wire, rope, cable, or cord.

The device or appliance, while simple in construction, will be found efficient and re- 45 liable in use, and by its use wire, rope, cable, or cord can be quickly drawn taut or strained and thereafter held in its taut or strained condition.

What I regard as new, and desire to secure 50

by Letters Patent, is—

1. In a wire and rope tightener and fastener, the combination of a drum-sleeve, a winding-arm revolubly mounted on the drumsleeve, a frame having side arms terminating 55 in an engaging end, and a cross-arm oppositely arranged in relation to the engaging end at a sufficient distance therefrom to allow of the rotation of the winding-arm, and having the drum-sleeve mounted thereon, sub- 60 stantially as described.

2. In a wire and rope tightener and fastener, the combination of a frame having side arms, an end cross-arm and an engaging end, a drum-sleeve mounted on the cross-arm, 65 and a winding-lever on the drum-sleeve and having at its end a hook for engagement with the side arm of the frame, substantially as

described.

3. In a wire and rope tightener and fas- 70 tener, the combination of a frame having side arms, an end cross-arm and a separable engaging end, a drum-sleeve mounted on the cross-arm, and a winding-lever looped around the drum-sleeve and having at each end a 75 hook for engagement with the side arm, substantially as described.

ARTHUR E. WHITE.

Witnesses:

THOMAS A. BANNING, OSCAR W. BOND.