

C. WINTER.
 POLE CLIMBER,
 APPLICATION FILED SEPT. 15, 1916.

1,234,596.

Patented July 24, 1917.

Fig. 1.

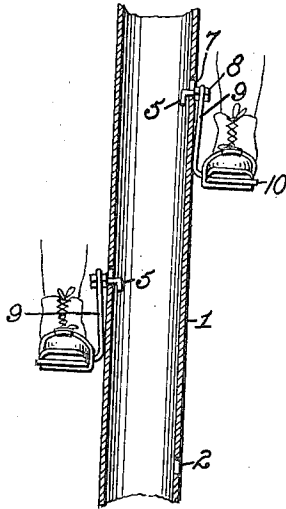


Fig. 2.

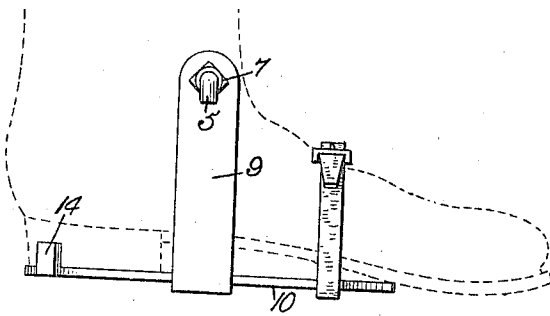


Fig. 3.

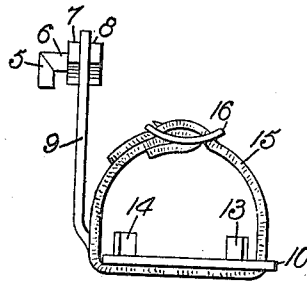
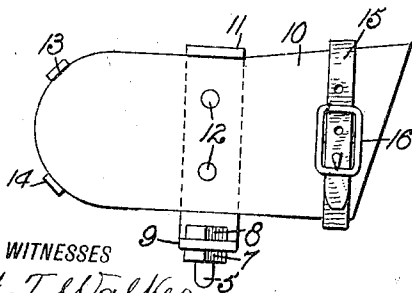


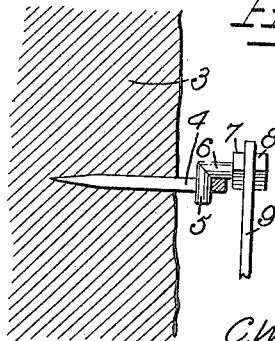
Fig. 4.



WITNESSES

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Fig. 5.



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POLE-CLIMBER.

1,234,596.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHRISTIAN WINTER, a citizen of the United States, and a resident of Oskaloosa, in the county of Mahaska and State of Iowa, have invented a new and Improved Pole-Climber, of which the following is a full, clear, and exact description.

This invention relates to climbing devices for linemen and has for an object the provision of an improved arrangement whereby a pole may be climbed in safety and if desired without the use of either of the hands.

Another object in view is to provide a climbing device adapted to be secured to the foot and to produce a swinging step when in use on a pole.

A further object in view is to provide a climbing device which may be clamped firmly to the foot without interfering with the usual movement of the foot when walking on the ground.

In the accompanying drawings:—

Figure 1 is a sectional view through a pole formed with apertures therein and a front view of a pair of climbers applied to the pole.

Fig. 2 is a side view on an enlarged scale of one of the climbing devices.

Fig. 3 is a front view of the structure shown in Fig. 2.

Fig. 4 is a top plan view of the structure shown in Fig. 2.

Fig. 5 is a detail fragmentary view showing how the climbing device may be used in connection with a staple.

Referring to the accompanying drawing by numerals, 1 indicates a pole provided with a plurality of apertures 2 on each side, said pole being shown as a metal pole though the invention may be applied to a wooden pole 3 (Fig. 5). When used with a wooden pole a staple 4 is utilized over which the hook 5 is passed. Hook 5 is provided with a threaded shank 6 on which the nuts 7 and 8 are mounted, and then the hook is clamped to the uprights 9 in any adjusted position according to the thickness of the walls of the pole 1. The apertures 2 in the pole 1 are made of sufficient size to readily admit the turned over part of hook 5 whereby the hook may readily engage and disengage the pole. The upstanding member 9 is bent over at the bottom and preferably extends entirely across the flat plate 10 where a short section 11 is bent up-

wardly again for acting as a side brace, the part of the member 9 extending across the bottom of plate 10 being held in place by suitable rivets 12.

The plate 10 is provided at the rear with heel braces 13 and 14 and near the front with a strap 15 riveted or otherwise secured to the plate so that when the buckle 16 is properly adjusted the strap will fit the foot as shown in Fig. 2, whereby the toe of the foot extends an appreciable distance beyond plate 10 thus allowing a natural movement of the foot when walking on the ground.

When the device is in use the climbers are arranged as shown in Fig. 1 whereby they act as steps or freely swing so that the climber may adjust his foot as desired and may climb the pole at any speed preferred. It will be evident that the hook 5 must be removed from one aperture and then placed in a higher aperture in order to climb, the opposite feet acting alternately.

What I claim is:

1. In a climber of the character described, the combination with a pole having openings therein, of a hook member adapted to be thrust through said openings, a plate for receiving the foot of a climber, said plate being shorter than the foot of the climber whereby the front part of the climber's foot is free for walking on the ground, an upstanding member secured to said plate and formed with an aperture through which part of said hook member projects, means for adjustably clamping said hook member to said upstanding member, and means for clamping said plate to said foot.

2. A climbing device comprising a plate having braces for holding the rear part of the foot on the plate, a clamping member for holding the front part of the foot on the plate, an upstanding member having a section extending across the bottom of said plate and a lug projecting upwardly from one side so as to hold said foot against lateral movement, and a hook extending from near the upper part of said upstanding member.

3. In a climbing device of the character described, the combination with a pole having apertures therein, of a foot supporting base, means for clamping the base to a foot, an upstanding member rigidly secured to said base and arranged on one side thereof, and a hook extending from near the upper part of the upstanding member for fitting

into one of said apertures whereby the base is supported but allowed to swing.

4. In a climbing device of the character described, the combination with a pole having apertures therein, of a base, means for clamping the base to a foot, a supporting upstanding member connected with said base, a hook adapted to be placed in any of said apertures, said hook extending through said upstanding member, a nut on each side of said upstanding member adjustably arranged on said hook whereby the hook may be moved so as to accommodate different thicknesses of poles. 10

CHRISTIAN WINTER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."