

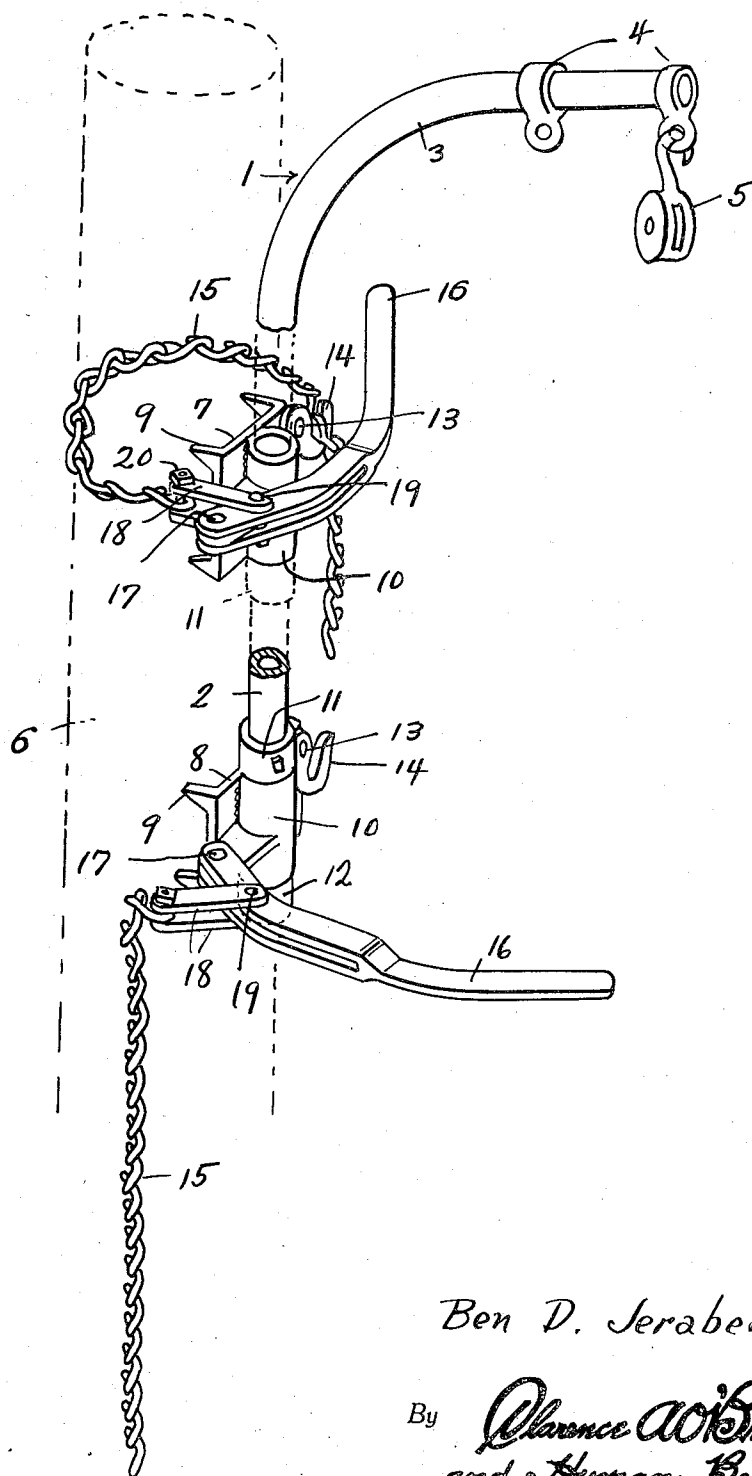
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HOISTING APPARATUS

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HOISTING APPARATUS

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1 Claim. (Cl. 212—61)

My invention relates to improvements in hoisting apparatus for use by linesmen in lifting heavy transformers for installation on poles, supporting electric conductor wires.

The object of the invention is to provide apparatus of the character set forth which may be quickly and securely attached to a pole at any desired height, or, readily detached therefrom, and which is simple in construction and therefore inexpensive to manufacture, light in weight, and readily portable.

With the foregoing and other objects in view, as will presently appear, the invention resides in the combinations of parts and features of construction illustrated in the accompanying drawing, set forth in detail in the succeeding description, and defined in the claim appended hereto.

In the drawing, the single figure thereof is a perspective view of apparatus constructed in accordance with my invention, and illustrating the manner in which the same is attached to a pole and detached therefrom.

Referring to the drawing by numerals, the apparatus of my invention comprises a crane preferably of tubular construction and including a straight shank 2 and a laterally extending upper end 3 equipped with one or more eyelet carrying sleeves 4 providing for the attachment to the crane of the usual hoisting tackle illustrated conventionally at 5.

The crane 1 is adapted to be attached to a pole, represented at 6 by dot and dash lines, in upright position and by means of a pair of upper and lower rectangular spur plates 7 and 8 having corner spurs 9 extending rearwardly therefrom to bite into the pole 6, each plate 7, 8, being provided on the front face thereof with a sleeve 10 in which the shank 2 of the crane is rotatably mounted for swinging movement of the end 3 thereof laterally. Relative endwise movement of the sleeves 10 and shank 2 is prevented by a pair of set collars 11 on said shank one under the upper sleeve 10 and the other over the lower sleeve, and a similar set collar 12 on the lower end of said shank.

The spur plates 7 and 8 are adapted to be clamped to the pole 6 by means of the following. Each plate 7, 8, has pivoted thereto, as at 13, adjacent to one side edge thereof a hook 14 for the attachment thereto of a link chain 15. Each chain 15 is adapted to be drawn taut around the pole 6 through the medium of a hand lever 16 pivoted at one end, as at 17, on the side of the related plates opposite that on which the hook 14 is pivoted, for lateral swinging movement and to which the appropriate chain is connected by means of a pair of links 18 pivoted to the lever

as at 19 and having a bolt 20 extending there-through and through a link in the chain. The links 17 are pivoted to their respective levers 16 so that the pivots 17 thereof may be swung past a dead center position relative to the pivots of the levers 16 by swinging movement of said levers into engagement with the sleeves 10 whereby said chains 15 are drawn taut and said levers 16 held against swinging movement in the reverse direction under the tension exerted by said taut chains. By swinging the levers 16 outwardly of the sleeves 10 and plates 7 and 8, the pivots 19 of the links 18 may be swung into a similar position on the opposite sides of the pivots 17 of said levers and the chains 15 loosened as will be clear. After the chains 15 are loosened they may be detached from the hooks 14 thereby detaching the apparatus from the pole 6.

By removing the set collar 12 from the shank 2 the lower spur plate 8 together with the lever 16, links 18, chain 15, and hook 14 carried thereby may be removed or detached from said shank and by then removing the set collars 11 and 10 the upper spur plate 7 together with the parts carried thereby may be similarly detached or removed. Thus, it will be seen, that the apparatus may be disassembled in short time for packing or transporting as desired.

The foregoing will, it is believed, suffice to impart a clear understanding of the invention without further explanation.

Manifestly, the invention, as described, is susceptible of modifications without departing from the inventive concept and right is herein reserved to such modifications as fall within the scope of the subjoined claim.

What I claim is:

Hoisting apparatus for attachment to the side of a pole comprising a crane having a straight shank and a laterally extending upper end, and means to attach said shank to said pole in upright position comprising a pair of upper and lower spur carrying plates on which said shank is rotatably mounted, a pair of chains connected to one side of said plates, respectively, to be trained around said pole, and manipulative means for drawing each chain taut, against the pole comprising a hand lever pivoted on each plate and having limited swinging movement inwardly toward the plate, a pair of links pivoted to each hand lever and connected to the related chains, each pair of links in the limit of movement of the related lever being swung past a dead center position relative to the pivot of the lever, each plate together with the chain, lever and links related thereto being detachable from the shank as a unit.

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