

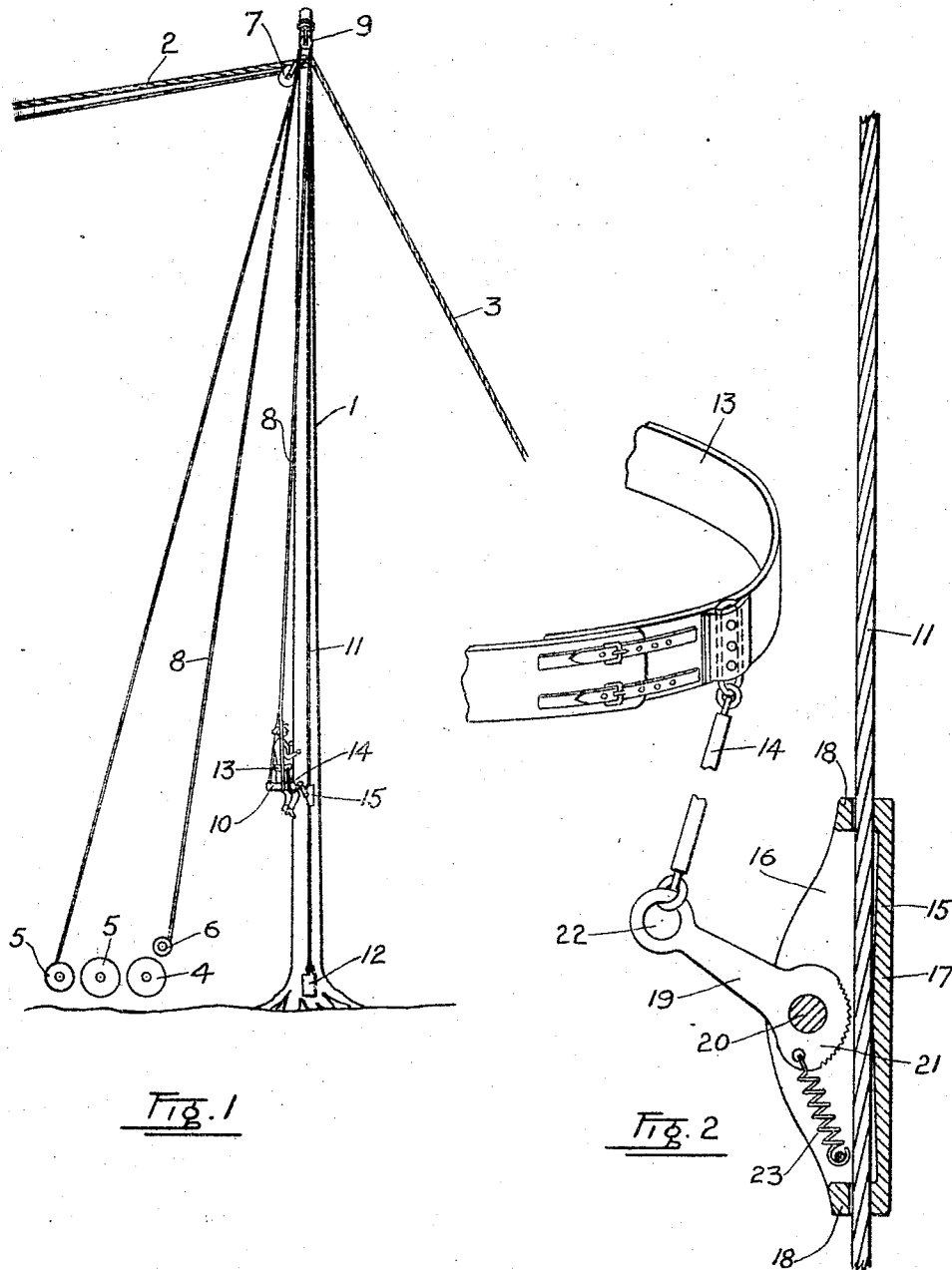
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N. NICKSON

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SAFETY DEVICE FOR HIGH RIGGERS

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UNITED STATES PATENT OFFICE.

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SAFETY DEVICE FOR HIGH RIGGERS.

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To all whom it may concern:

Be it known that I, NICHOLAS NICKSON, a citizen of Russia, and a resident of the city of Vancouver, in the Province of British Columbia, Canada, have invented certain new and useful Improvements in Safety Devices for High Riggers, of which the following is a specification.

My invention relates to improvements in safety devices for high riggers, the objects of which are to provide means whereby a high rigger in a logging camp or the like, may be safeguarded against falling from a spar pole in the event of a breakage of or damage to the hoisting line upon which he is supported when working above the ground.

The invention consists essentially of a safety line permanently secured adjacent the head of the spar tree and a running clamp thereon which is adapted to be fastened to the rigger's body by suitable means and which grips the safety line in the event of a downward pull being exerted upon it, as will be more fully described in the following specification, in which:—

Fig. 1 is a general view showing the application of my invention.

Fig. 2 is a sectional view of the clamp upon the safety line.

In the drawings like characters of reference indicate corresponding parts in each figure.

The numeral 1 indicates a spar pole from which a high lead or other line 2 extends and which is suitably provided with a guy line 3.

The numeral 4 indicates a winding gear having a plurality of hauling drums 5 and a light line drum 6 by which the high rigger is hoisted and lowered to or from his work of adjusting or altering any of the head blocks 7 or other gear upon the pole. The numeral 8 indicates a hoisting line leading from the drum 6 of the winding gear, over a sheave 9 at the head of the pole and down to a chaser's seat 10 upon which the high rigger is carried. Suitably secured adjacent the top of the spar pole 1 a safety line 11 is secured which extends to the ground and is preferably weighted as at 12 to keep it taut, or it may be held by hand until the rigger is raised to an appreciable height and sufficient weight of line extends below the clamp to serve to hold the upper portion of the line straight. The high rig-

ger is suitably equipped with a belt 13 to which one end of a short line 14 is attached.

The numeral 15 indicates generally a clamp (see Fig. 2) which is formed with a channel member having side walls 16 and a back or connecting wall 17. The ends of the clamp are provided with eyes as at 18 which are adapted to loosely embrace the safety line 11 to maintain the clamp in proper position thereon.

The numeral 19 indicates a lever fulcrumed upon a pin 20 extending between the side walls 16, which lever is provided with a serrated faced cam 21 adjacent the pin and an eye 22 at its outer end. The cam 21 of the lever 19 is adapted to bear against the safety rope 11 and to grip it against the connecting wall 17 of the clamp on the downward movement of the lever, and a spring 23 is attached between the cam and the clamp side walls to keep the clamp in slight bearing contact with the rope so that it may slip along the cable with but little resistance when being drawn in an upward direction.

Having thus described the several parts of my invention I will now briefly explain its use.

The high rigger prior to being hauled up the spar pole connects the line 14 of his belt 13 to the outer end of the lever 19 of the clamp so that as he is raised the clamp is drawn upwardly upon the safety line 11. In the event of an accident occurring to any part of the hoisting gear the downward movement of the high rigger is imparted to the lever 19 through the line 14 causing the cam to grip the safety line and transfer the weight of the man from the hoisting line 8 to the safety line 11.

On descending from the spar pole the clamp 15 is tightly held above the belt, with the lever slightly depressed so that the rope 11 may run freely through the clamp, when in the event of a fall occurring the clamp is snatched out of the rigger's hand by his weight so that it is free to operate and grip upon the safety line.

What I claim as my invention is:

A safety device of the character described comprising a U-shaped clamp member, a lever having one end pivotally mounted between the sides of said member and formed to present a cam surface co-operating with an opposing portion of the member to clamp an interposed rope pass-

ing between the sides of said member, a
spring secured at one end to said member
and at the opposite end to the cam portion
of the lever and arranged to normally hold
5 the lever out of gripping engagement with
the rope, a body encircling belt, and a con-
necting element having one extremity se-

cured to said belt and the other extremity
secured to an eye formed in the outer end of
the lever. 10

Dated at Vancouver, B. C., this 16th day
of April, 1925.

NICHOLAS NICKSON.