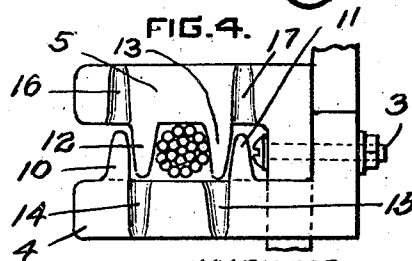
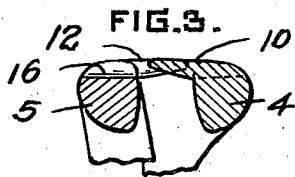
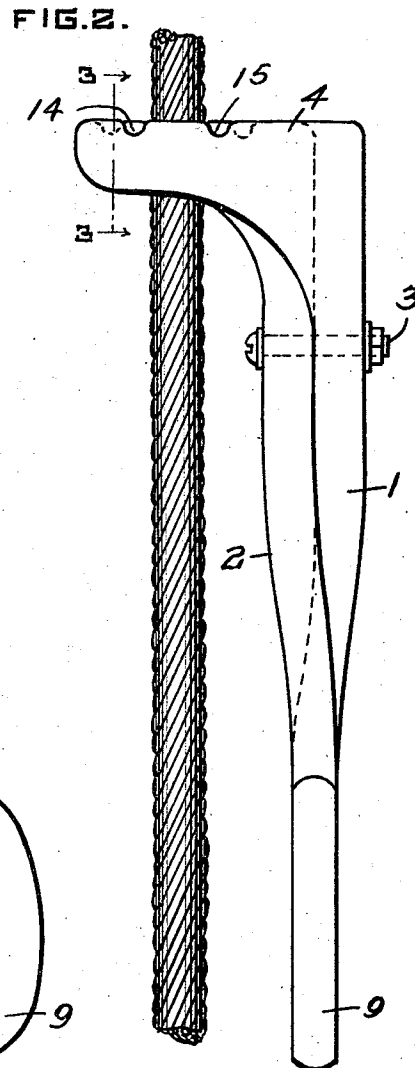
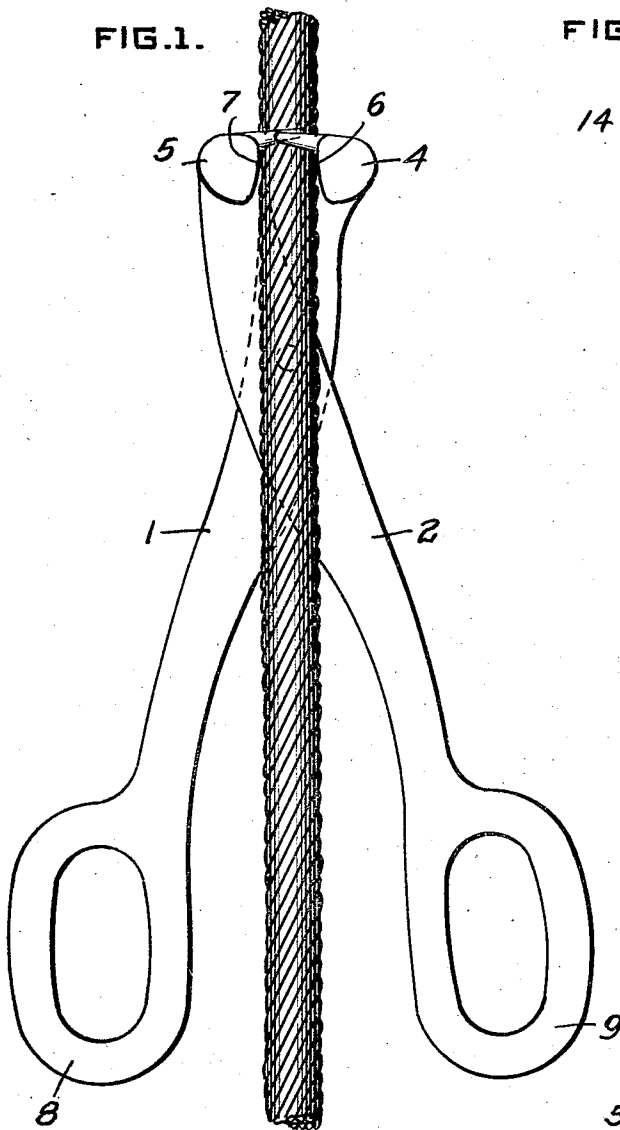


Sept. 21, 1926.

1,600,747

A. YURKOVITCH
WIRE OR ROPE GRIPPER
Filed Feb. 28, 1924



WITNESSES
J. Herbert Bradley

INVENTOR
Anthon Yurkovitch
By Sherr and McCallister
His Attorneys

UNITED STATES PATENT OFFICE.

ANTHON YURKOVITCH, OF PITTSBURGH, PENNSYLVANIA.

WIRE OR ROPE GRIPPER.

Application filed February 28, 1924. Serial No. 695,695.

This invention relates to rope or wire grippers and more particularly to a gripper of the hand tool type in which the rope or wire is held by friction due to the direct contact between it and the gripping faces of the tool. While the tool is particularly adapted for use in sliding down rope fire escapes other uses to which it may be put will appear obvious from the following description.

An object of this invention is to provide a tool of the above type in which the gripping surfaces are provided with rope positioning means for properly placing the rope between the surfaces of the tool and for preventing displacement of the rope therefrom.

A further object is to provide a tool of the type described which will be rugged in construction, easy and positive in operation and cheap to manufacture.

These and other objects, which will appear obvious from the following description, are accomplished by means of this invention, one embodiment of which is shown in the accompanying drawings in which Figure 1 is a front elevation of a tool constructed in accordance with this invention showing the same in operative relation to a rope, Fig. 2 is a side elevation of the same, Fig. 3 is a vertical section on the line 3-3 of Fig. 2 and Fig. 4 is a top plan view of the tool.

This invention is illustrated as being applied to a hand tool having two lever arms 1 and 2 which are pivotally connected by a bolt 3 similarly to a pair of shears. The levers 1 and 2 are respectively provided with laterally extending parallel arms 4 and 5 which are preferably formed integral with the levers so as to provide a rugged construction.

The arms 4 and 5 have adjacent faces 6 and 7, respectively, which form rope gripping surfaces and which are adapted to grip a rope upon manipulation of the levers 1 and 2 by the handles 8 and 9 with which the levers are respectively provided at their ends opposite to the rope gripping arms. In order to properly position the rope between the gripping arms and also to prevent displacement of the rope therefrom I provide inwardly extending fingers 10 and 11 on the arm 4 and similar fingers 12 and 13 on the

arm 5, between which the rope is accommodated. In order to permit the arms 4 and 5 to closely approach each other so as to grip a comparatively small rope I provide grooves 14 and 15 in the arm for receiving the fingers 12 and 13 on the arm 5. The latter arm has similar grooves 16 and 17 for receiving the fingers 10 and 11 formed on the arm 4. The rope positioning fingers not only prevent displacement of the rope from between the gripping arms 4 and 5 but also position the rope a sufficient distance away from the handles 8 and 9 to prevent its coming into contact with the hand of the manipulator with the resultant injury or burning due to friction.

In sliding down a rope fire escape the levers are oscillated so as to spread the arms 4 and 5 sufficiently far apart to permit the insertion of the rope therebetween and also within the inner fingers 12 and 13. By gripping the handles 8 and 9 the arms are caused to grip the rope with sufficient friction to enable the manipulator to slide down in safety. The fingers 10 and 12 prevent the rope from slipping out from between the gripping arms and the fingers 11 and 13 prevent the rope from approaching close enough to the handle of the tool to injure the hand of the operator.

While I have described one specific use to which this invention may be put it is obviously adapted for many others and may be used for gripping wire, rods, etc., as well as rope.

What I claim as new and desire to secure by Letters Patent is:—

A rope gripper including two pivoted levers, laterally extending parallel rope gripping arms on said levers, means for oscillating said levers so as to cause said arms to grip a rope or the like, cooperating staggered fingers on said arms for positioning the rope therebetween and grooves in each of said arms for accommodating the fingers on the other of said arms.

In testimony whereof, I have hereunto subscribed my name this 23 day of February, 1924.

ANTHON YURKOVITCH.