Dec. 7, 1948. C. N. MAGGIACOMO 2,455,377

WIRE WINDING DEVICF

Filed March 21, 1945 2 Sheets-Sheet 1

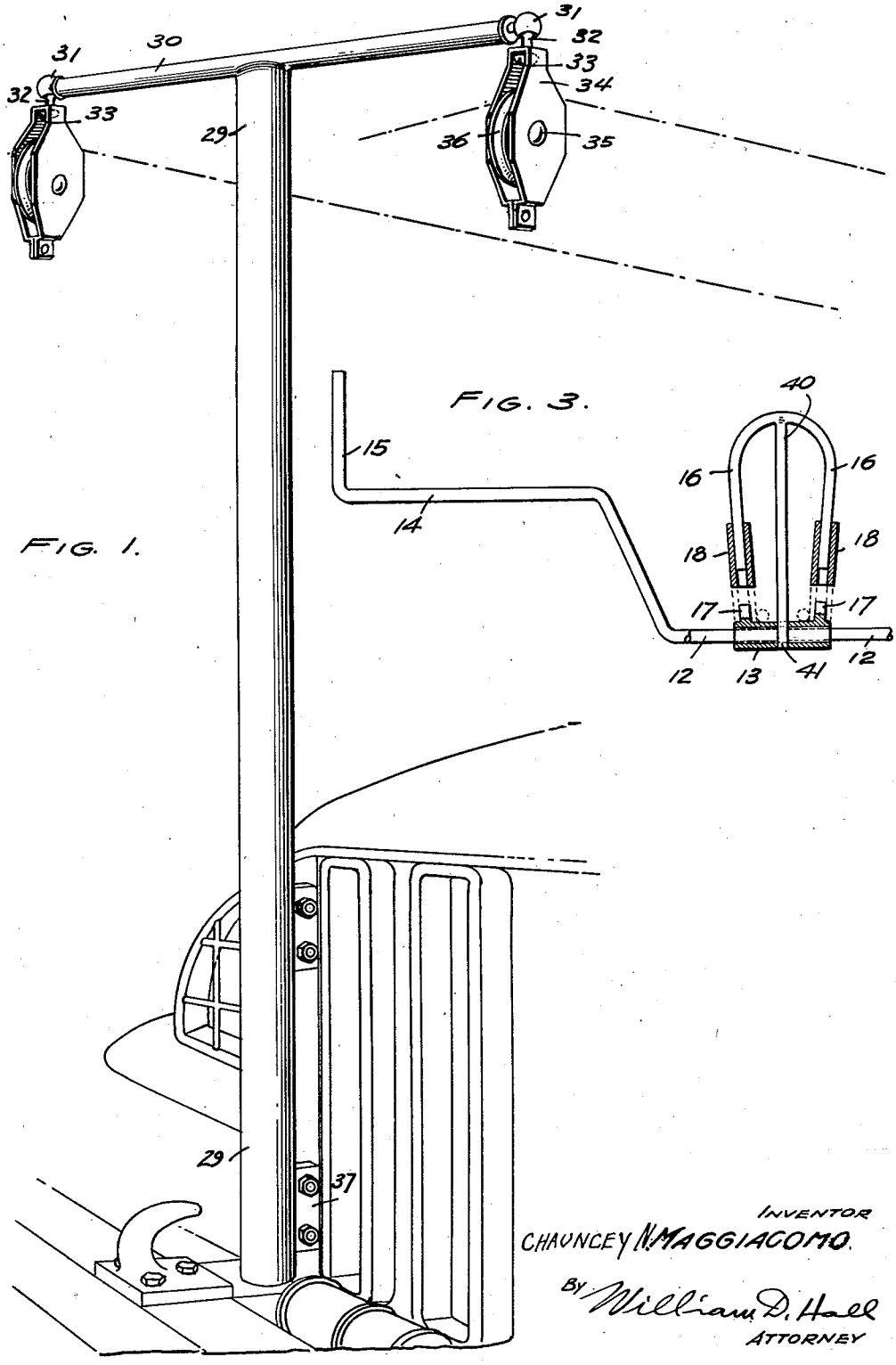


FIG. 1.

FIG. 3.

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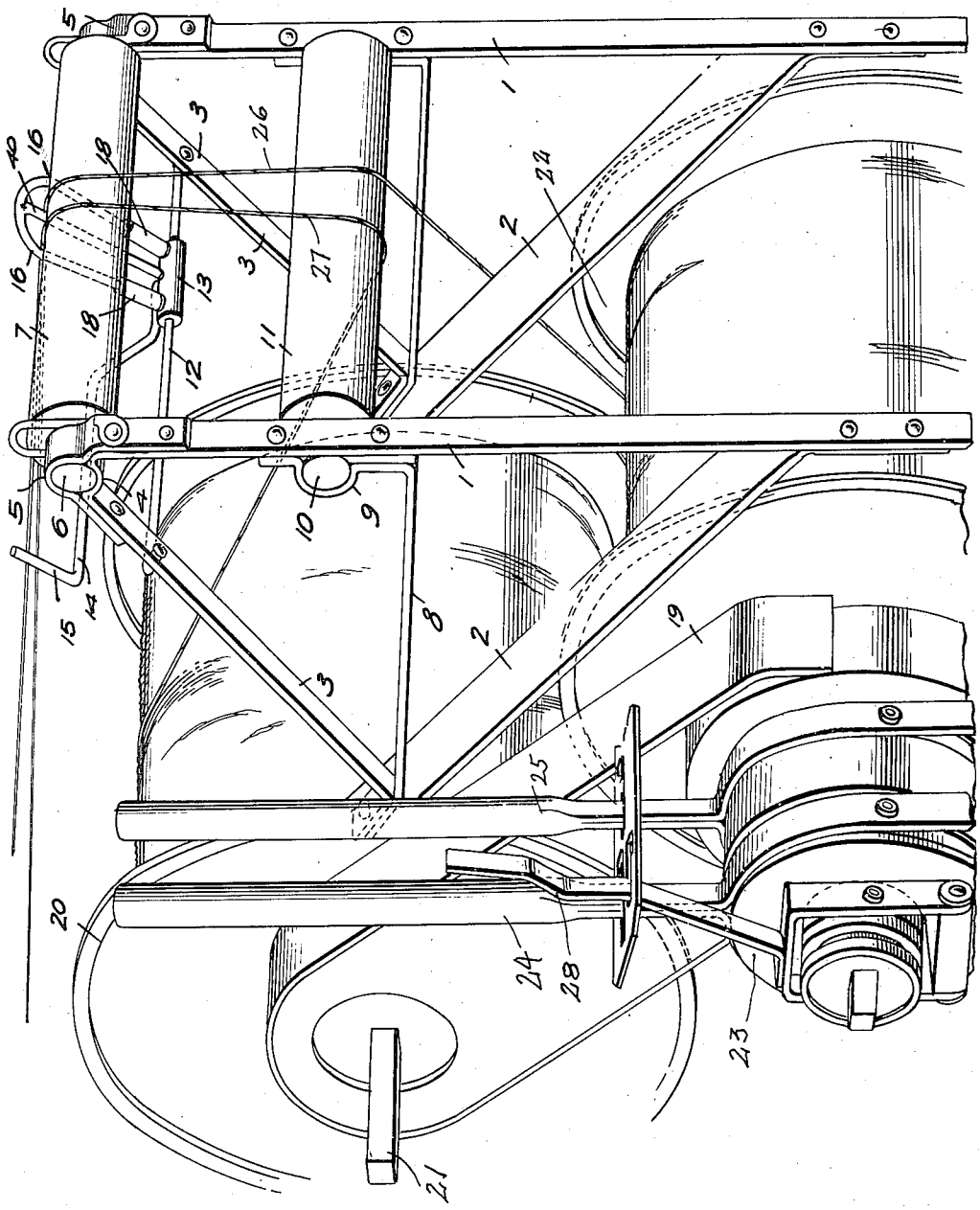


FIG. 2.

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WIRE-WINDING DEVICE

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5 Claims. (Cl. 242—90)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

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The invention described herein may be manufactured and used by or for the Government for governmental purposes, without the payment to me of any royalty thereon.

This invention relates to improvements in devices for recovering field wire.

In military operations it is often necessary to recover field wire which has been laid upon poles or elsewhere. This wire is wound upon reels carried by a truck, and heretofore, it has been necessary to have a lineman follow the truck to put the tension on the wire necessary to enable it to be properly wound on the reels. This method is slow and also requires the use of two or more linemen.

It is, therefore, an object of this invention to provide a device for rapidly recovering field wire and requiring the use of only one man.

A further object is the provision of a line recovering device which can be readily installed on an ordinary truck without material alteration.

These and other objects are attained by the novel construction and arrangement hereinafter described and illustrated in the accompanying drawings, forming a part hereof, and in which

Figure 1 is a perspective view of a guide unit used in the device.

Figure 2 is a perspective view of tensioning and reeling units used in the device.

Figure 3 is a perspective view of another guide unit used in the device.

Referring to the drawings, the field wire recovering device is shown to comprise a frame having upstanding posts 1, having connected thereto struts 2 and 3. Posts 1 and struts 3 are integral and bowed at 4 to provide the lower part of a bearing, the upper part of which is provided by a strap 5 secured to post 1 and strut 3. Journalled in the bearing is a shaft 6 carrying a roller 7. Bars 8, fixed to struts 2 and post 1, have a portion bowed at 9 to form with post 1 a bearing for the shaft 10 carrying the lower tensioning roller 11.

Supported by struts 3 is a rod 12 upon which is slidably mounted a collar 13, integral with a rod 14, which is bent to form a handle 15. The collar 13 has a pair of projections 17 adapted to extend into tubes 18 carried by U-shaped guide member 16, which has a rod 40 projecting from the center thereof and adapted to pass through an aperture 41 in the collar 13.

A belt carried in a casing 19 drives a reel 20 rotatable on a shaft 21, the belt being driven by a motor 23, which also drives drum 22. Both drums may be driven simultaneously, or they

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may be driven independently, and at various speeds. The shifts are accomplished by levers 24, 25 and 28.

The two wires being recovered are wound on different reels. Wire 26 passes over roller 7 and is wound on reel 22, and wire 27 passes over roller 7 and under roller 11 and is then wound on reel 20.

The wires are guided to the reels by pulleys 36 rotatably mounted on pins 35 which are carried by hangers 34 rotatably resting on heads 33 at one end of studs 32 attached to ball and socket arrangements 31 welded to the ends of rods 30. The rods 30 are fixed to the upper end of post 29, which is mounted on the front of a truck by brackets attached to the grill.

In operation, to wind two wires on the reels, the tubes 18 are raised from the projections 17 and the wires inserted in the two sections of loop 16 defined by the post 40, the wires having been previously passed over the pulleys 36. The wires pass over rolls 7 and 11 to the reels 20 and 22. The operator manipulates the levers 24, 25 and 28 to control the motor and operate either one or both of the reels. The operator is able to control the speed of the reels to coincide with the speed of the truck. As the truck moves forward the wire is picked up by the pulleys 36 and is wound on the reels with the proper tensioning. It will be seen that only one operator is required, and no lineman is necessary to follow the truck to tension the wire. By moving the collar 13 back and forth, the wire can be evenly distributed from one end to the other of a reel.

From the above description it will be seen that there has been provided a simple and effective wire recovering device, which can be readily and conveniently installed on almost any truck. The device is simple in operation, and requires the services of only one operator.

The above description is to be considered as illustrative and not limitative of the invention of which modifications can be made without departing from the spirit and scope of the invention as set forth in the appended claims.

The invention having been described, what is claimed is:

1. A device for recovering field wire comprising, a frame, a pair of reels mounted on the frame, means for driving said reels, an upper roller and a lower roller carried by the frame for tensioning wire passing to the reels, means for manually traversing the winding of the wire from one end of a reel to the other, a post on the frame, a cross arm at the upper end of the post, and swivelly

mounted pulleys one at each end of the cross arm to guide wire to the rollers.

2. A device for recovering field wire comprising, a pair of reels, means for driving said reels, tension rollers for the wire mounted above the reels, means for manually traversing the winding of wire from one end of a reel to the other, a post, and a pair of guide pulleys swivelly mounted on the post to guide wire to the rollers and said reels.

3. A device for recovering field wire comprising, a frame, a pair of reels mounted on the frame, means for driving said reels, an upper roller and a lower roller carried by the frame for tensioning wire passing to the reels, a post on the frame, a cross arm at the upper end of the post, and swivelly mounted pulleys one at each end of the cross arm to guide wire to the rollers.

4. A device for recovering field wire comprising, a pair of reels, means for driving said reels, tension rollers for the wire mounted above the reels, a post, and a pair of guide pulleys swivelly mounted on the post to guide wire to the rollers and said reels.

5. In combination with a vehicle, a device for recovering field wire, comprising a pair of reels mounted in the vehicle, means for rotating the reels, a pair of tensioning rollers for the wire mounted above the reels, a post mounted on the vehicle, and a pair of guide pulleys supported by the post to guide wire to the rollers and said reels.

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The following references are of record in the file of this patent:

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