Nov. 20, 1956 R. D. ROSEWALL 2,771,268

HOUSED MOTORIZED PULLEY

Filed July 12, 1954

Fig 1

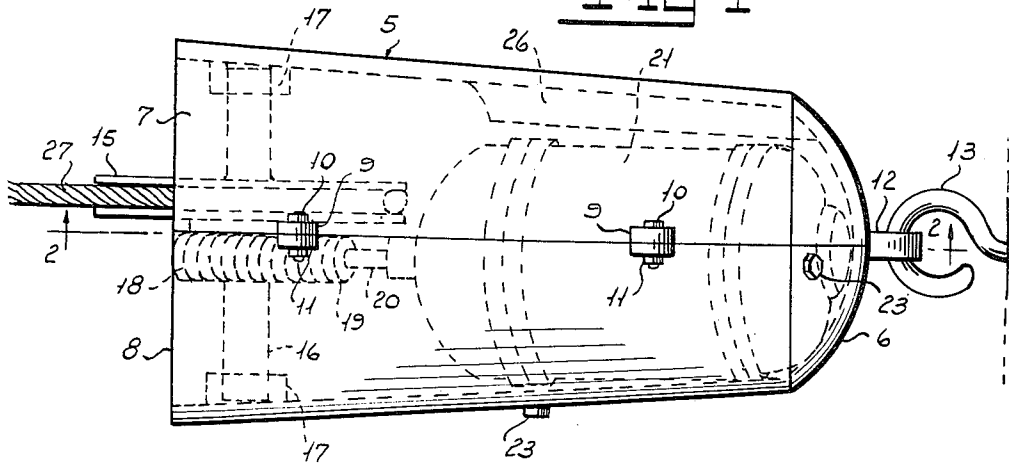


Fig 2

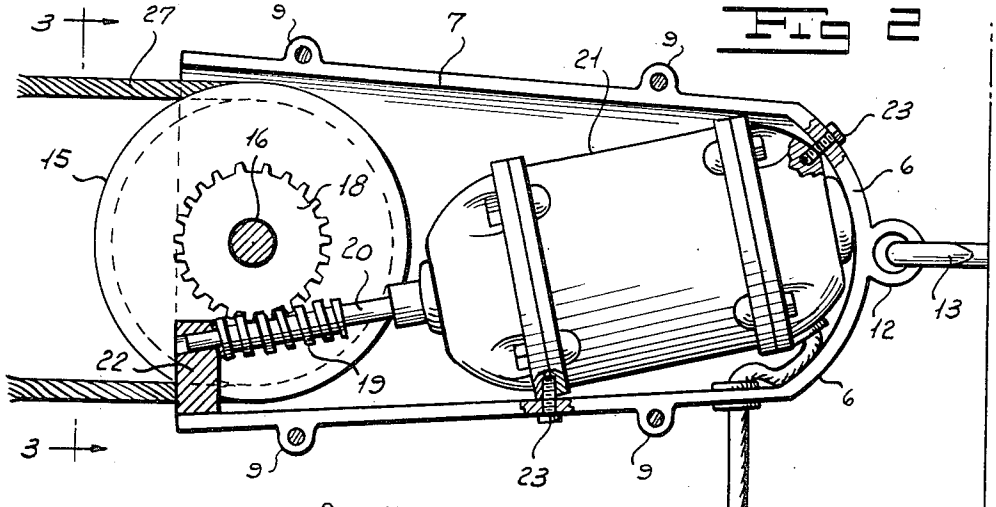
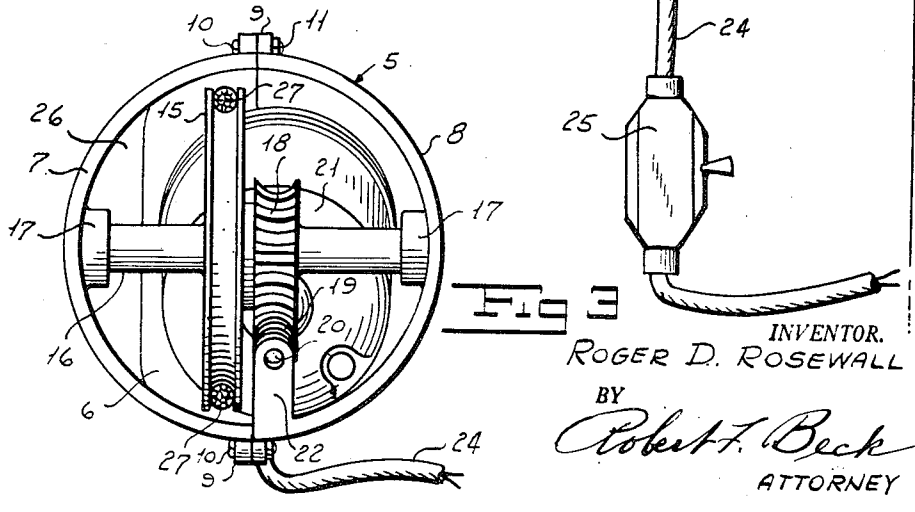


Fig 3



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HOUSED MOTORIZED PULLEY

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2 Claims. (Cl. 254—175.3)

My invention relates to pulleys and more particularly to clothes line pulleys.

One of the objects of my invention is to provide a clothes line pulley equipped with power actuated means for operating the pulley.

Another object of my invention is to provide a clothes line pulley of the foregoing described character wherein the various components are arranged within a housing and in a manner to form a relatively smooth, compact and portable unit.

A further object of my invention is to provide a clothes line pulley of the foregoing described character wherein the housing is constructed in a manner to facilitate assembly of the unit and to permit inspection and replacement of the various components.

An important object of my invention is to provide a clothes line pulley unit of the foregoing described character which is simple in construction, durable in use, efficient in operation, economical in manufacture and which does not require specialized skill in the operation thereof.

With the above and other objects in view, as will hereinafter appear, the invention consists in the combination and arrangement of parts hereinafter set forth and illustrated in the accompanying drawings from which the several features of the invention and the advantages attained thereby will be readily understood by those skilled in the art.

Referring to the drawings wherein like reference characters designate like parts throughout the several views:

Figure 1 is a top plan view of my invention.

Figure 2 is a sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a sectional view taken on the line 3—3 of Figure 2.

In practicing my invention, as illustrated in the drawing, I provide a clothes line pulley unit comprising an elongated cylindriform housing 5 open at its front end and closed at its rear end by means of a rear wall 6, with said housing being of a slightly greater diameter at its front end than at said rear end. The housing is fashioned with a pair of elongated longitudinally separable sections 7 and 8, respectively, each provided on its outer peripheral face with lugs 9 having eyes through which extend bolts 10 provided with nuts 11 for securing the sections together in fixed relation. The rear end of one of said sections is provided with eyed lug 12 for receiving a hook 13 or other appropriate device for supporting the adjacent end of the unit.

Disposed within the front end section of the housing is a pulley 15 fixed to a transverse shaft 16 journaled in suitable bearings 17 formed in the sections 7 and 8 and with said shaft having fixed thereto, on one side of said pulley, a worm gear 18 meshing with a worm 19 mounted on the outer end of a drive shaft 20 of a motor 21 secured within the housing 5 between the rear end thereof and the pulley 15. The axis of the shaft 20 extends tangentially with respect to the gear 18 and has its outer end journaled within a bearing bracket 22 carried by the section 8 at the front end thereof. The motor is secured in fixed relation within the housing by any suitable means, for instance, screws 23. The motor has connected thereto electric wiring 24 which extends through the housing 5, adjacent the rear end of the latter, and connects to a source of electrical energy for operating the motor.

The wire 24 is provided with a switch 25 which controls the flow of current to the motor and is operable to start and stop the motor and also to effect rotation of the shaft 20 in either direction. In order to compensate for the weight of the motor and various other components disposed in proximity to the section 8 of the housing, the section 7 is provided with a suitable weight 26 to thus balance the housing.

In use, assuming the unit is secured to the hook 13 and a clothes line 27 is trained about the pulley 15, the motor is actuated upon manipulation of the switch to effect movement of the clothes line 27 in a desired direction about the pulley 15, while, upon further manipulation of the switch, the motor is reversed to operate the line in an opposite direction.

Without further elaboration, the foregoing will so fully explain the invention that others may, by applying current knowledge, readily adapt the same for use under various conditions of service. Moreover, it is not indispensable that all the features of the invention be used conjointly since they may be employed advantageously in various combinations and subcombinations.

It is obvious that the invention is not confined solely to the use herein disclosed in connection therewith as it may be utilized for any purpose to which it is adaptable. It is therefore to be understood that the invention is not limited to the specific construction as illustrated and described, as the same is only illustrative of the principles involved which are capable of extended application in various forms, and the invention comprehends all construction within the scope of the appended claims.

What I claim is:

1. In a clothes line pulley assembly, an elongated housing having open and closed ends, and formed with longitudinally extending connected sections, a shaft transversing said housing and rotatably journaled in said sections in proximity to said open end, a pulley fixed to said shaft for receiving a clothes line extending out of said housing through said open end, a gear fixed to said shaft adjacent said pulley, a motor secured within said housing adjacent one of said sections and said closed end and having a drive shaft disposed in tangential relation with said gear and inclined relative to the longitudinality of said housing, said drive shaft provided with a worm meshing with said gear for operating said pulley by said motor, and a weight disposed within said housing adjacent said other section for counterbalancing said motor.

2. In a clothes line pulley assembly, an elongated housing having oppositely disposed ends, a shaft rotatably journaled in said housing in proximity to one of said ends, a pulley fixed to said shaft for receiving a clothes line extending out of said housing through said one end, a motor secured within said housing adjacent said other end with its axis disposed in a plane located on one side of the longitudinal axis of said housing, drive means located on said side of the longitudinal axis of said housing and connecting said motor to said shaft for operating said pulley by said motor, and a weight fixed to said housing on the opposite side of the longitudinal axis thereof for counterbalancing said motor.

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