

G. W. MACK.
PULLEY ROPE GAGE.
APPLICATION FILED MAR. 31, 1910.

961,510.

Patented June 14, 1910.

Fig. 1 -

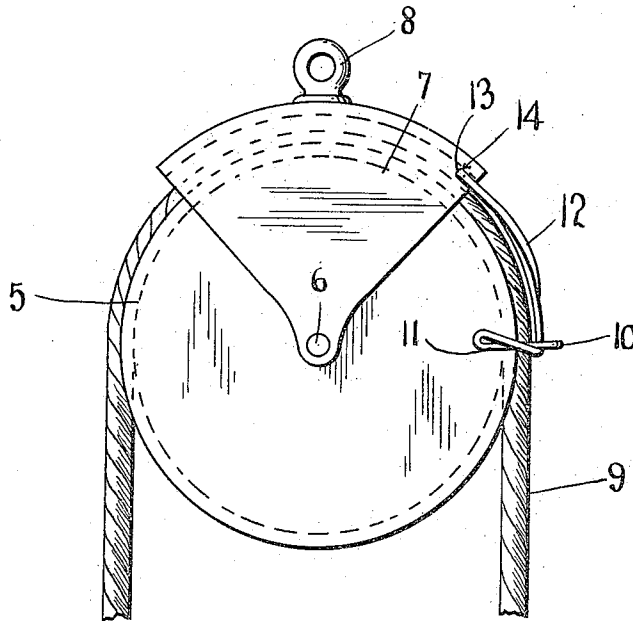
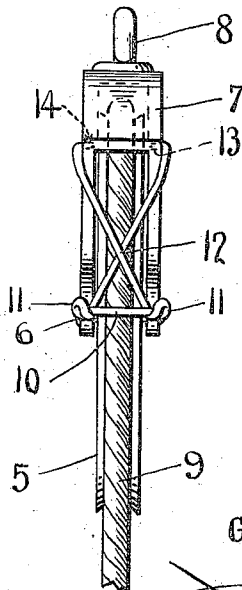


Fig. 2 -



Inventor

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Witnesses

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[Signature]

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UNITED STATES PATENT OFFICE.

GORDEN W. MACK, OF PEEDS, VIRGINIA.

PULLEY-ROPE GAGE.

961,510.

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To all whom it may concern:

Be it known that I, GORDEN W. MACK, a citizen of the United States, residing at Peeds, in the county of Westmoreland, State of Virginia, have invented certain new and useful Improvements in Pulley-Rope Gages; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to a pulley rope gage and more particularly to the class of devices for guiding pulley cables.

The primary object of the invention is the provision of a device of this character in which a cable trained over a pulley will be guided thereover and prevented from jumping the said pulley which would necessarily result in the jamming of the cable between the said pulley and its supporting casing.

Another object of the invention is the provision of a device of this character in which a cable will be constantly maintained trained over a pulley so that the said cable will be prevented from jumping the pulley when in operation for hoisting purposes.

A further object of the invention is the provision of a device of this character which is simple in construction thoroughly reliable and efficient in operation, and inexpensive in operation.

With these and other objects in view, the invention consists in the construction, combination, and arrangement of parts, as will be hereinafter more fully described in detail, illustrated in the accompanying drawings, which disclose the preferred form of embodiment of the invention, and as pointed out in the claims hereunto appended.

In the drawings:—Figure 1 is a side elevation of a well pulley and its casing with the invention applied thereto. Fig. 2 is a front elevation.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings, by numerals, 5 designates a pulley wheel or sheave of the ordinary well known construction which is supported for rotation upon an axle or spindle 6, mounted transversely of a casing or

hanger yoke 7, the latter being provided with the usual suspension eye 8, and over this pulley wheel or sheave 5, is trained a cable 9, the latter being held in a peripheral groove formed in the said sheave or pulley wheel.

The gage device comprises a single strand of wire bent to provide an arch straddle yoke 10, which latter spans the width of the pulley wheel 5, so that its parallel leg portions 11, will engage or contact with opposite side faces of the pulley wheel and when the yoke is in this position it serves to maintain the cable 9, seated within the peripheral groove in the pulley wheel when traveling over the latter. The single strand of wire from which the gage device is made is further bent to form curved cross arms 12, the extremities of which are bent inwardly toward each other to form hook terminals 13, and these arms 12, due to the resilient quality of the wire will permit the arms to spread so that the hook terminal 13, will engage in alining apertures 14, in the casing 7, for the pivotal mounting of the gage device therewith and by the pivotal connection with the assistance of gravity the gage device is constantly maintained in position for holding the cable 9, about the pulley wheel and to prevent the said cable from getting out of the groove in the pulley wheel.

What is claimed is:—

1. In a rope gage the combination with a sheave and casing in which it is designed to run, of a gage comprising a single strand of wire bent to form an arched yoke spanning the pulley and engaging the opposite side faces of the latter and cross arms pivotally connected to the casing to maintain the yoke in proper relation to the pulley.

2. A device of the class described comprising a single strand of wire bent to provide a yoke for straddling a pulley, and cross arms having hook terminals to pivotally connect them to a casing for the pulley.

In testimony whereof, I affix my signature, in presence of two witnesses.

GORDEN W. MACK.

Witnesses:

FRANK STUART,
JOHN M. HURT.