May 3, 1932. N. A. IRWIN 1,856,993

PULLEY

Filed May 26, 1930

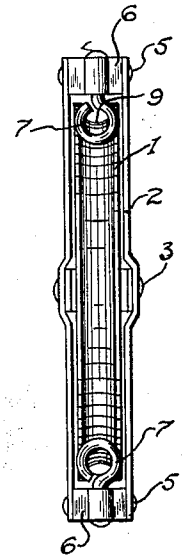


Fig. 2

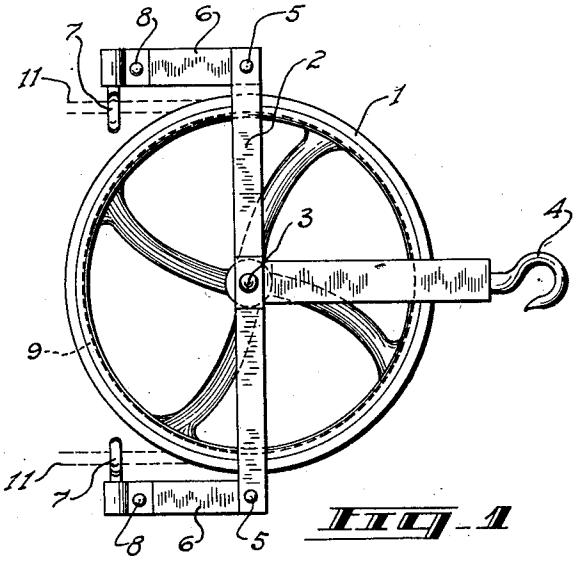


Fig. 1

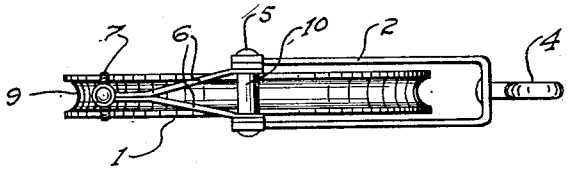


Fig. 3

INVENTRESS

Nellie A. Irwin

W. Irwin Haskett

Her Attorney

Patented May 3, 1932

1,856,993

UNITED STATES PATENT OFFICE

NELLIE A. IRWIN, OF WATERLOO, QUEBEC, CANADA

PULLEY

Application filed May 26, 1930, Serial No. 455,601, and in Canada February 19, 1930.

My present invention relates to improvements in a pulley and appertains particularly to a line guiding means therefor.

An object of the invention is to provide a guide for a clothes line which will at all times lead the rope in such a way as to preclude the possibility of its slipping off the pulley and which will even permit the upper and lower strands to diverge without danger of displacement if the lines run out in other than parallel relation.

A still further object is the provision of a clothes line guide characterized by structural simplicity, durability and low cost of production, whereby the same is rendered commercially desirable.

To the accomplishment of these and related objects as shall become apparent as the description proceeds, my invention resides in the construction, combination and arrangement of parts as shall be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the claims hereunto appended.

The invention will be best understood and can be more clearly described when reference is had to the drawings forming a part of this disclosure, wherein like characters indicate like parts throughout the several views.

In the drawings:—

Figure 1 is a side elevation of my invention;

Figure 2 is an end view thereof; and

Figure 3 is a top plan.

Referring more in detail to the drawings, 1 designates a pulley rotatably mounted in a frame 2 on an axial bolt 3, the said frame being composed of bars extending respectively in upright and rearwardly horizontal position upon each side of and to a point beyond the circumference of the pulley. A hook 4 is rotatably mounted at the rear outer extremity of the said frame, the spaced horizontal, rearwardly extending frame members being preferably joined at their rear ends to form a U.

A guide arm 6 is hingedly attached between the spaced upright frame members at the outer ends thereof by the transverse pins 5, and extend forwardly therefrom. These guide arms 6 are each formed of a single strip of metal doubled on itself to embrace a depending eye 7 at its free end, closed on the stem of the eye by the rivet 8, and having its rearwardly extending legs spread V-fashion by a spacing sleeve 10 inserted between them on the pin 5.

The eye is in normal alignment with the pulley groove 9 yet free to hinge vertically in the same plane so as to afford continuous direction guidance to the line 11.

In operation a free end of the rope 11 is inserted through one of the eyes 7 and run around the groove 9 of the pulley 1 and out through the other eye. After the ends of the rope are joined, the device in operation, by virtue of its pivotally carried arms, will give the rope a positive lead to the groove of the pulley no matter from what lateral or vertical angle the rope enters or leaves the eye, the hinged support of said eye allowing for the hinging of the guide arms into parallel relation with the line engaged.

From the foregoing description read in conjunction with the accompanying drawings, it will be manifest that a pulley and line guiding means therefor is provided that will fulfill all the necessary requirements of such a device but as many changes could be made in tbe above description and many apparently widely different embodiments of my invention may be constructed within the scope of the appended claims without departing from the spirit or scope thereof, it is intended that all matters contained in the said accompanying specification and drawings, shall be interpreted as illustrative and not in a limitative or restrictive sense.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a pulley, a supporting frame having bars projecting vertically and rearwardly beyond the circumference of the pulley, arms each formed of a metal strip folded upon itself and hingedly mounted at their inner ends on the vertical extremities of said frame and adapted to swing in a normally horizontal position forwardly of the pulley and line

guiding means rigidly secured to the outer ends of said arms.

2. In a pulley, a supporting frame having bars projecting vertically and rearwardly beyond the circumference of said pulley, arms each formed of a metal strip folded upon itself and hingedly mounted at their inner ends on the vertical ends of said frame and adapted to swing in a normally horizontal position forwardly of the pulley, and guide eyes rigidly secured in the outer ends of said arms and lying in the plane of the pulley.

In testimony whereof I hereunto affix my signature.

NELLIE A. IRWIN. [L. S.]