Aug. 25, 1931. B. L. POLKOSNIK 1,820,322

PULLEY GUARD AND HANGER

Filed Oct. 23, 1928

Fig. 1.

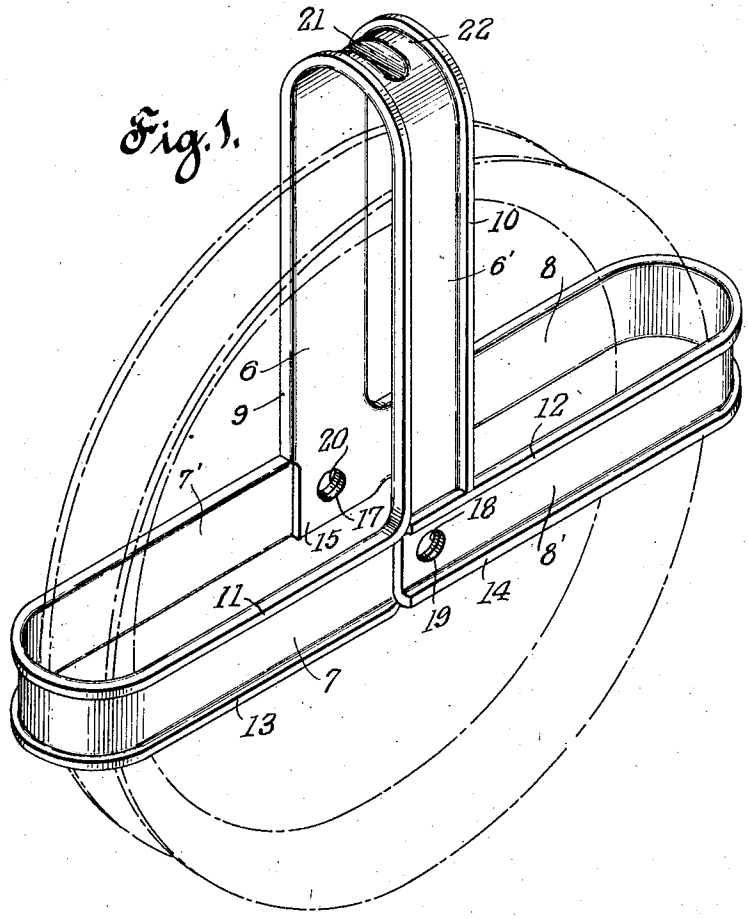


Fig. 2.

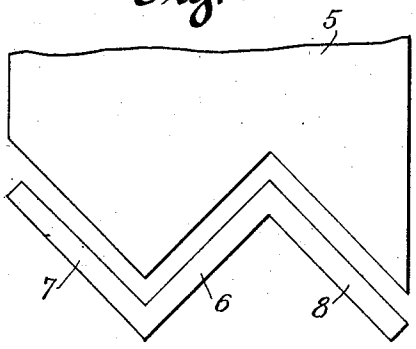
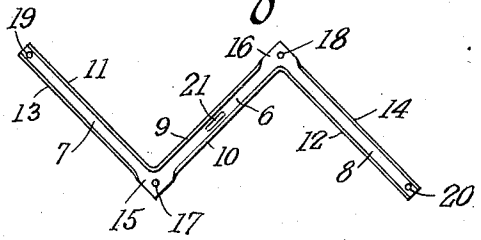


Fig. 3.



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UNITED STATES PATENT OFFICE

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PULLEY GUARD AND HANGER

Application filed October 23, 1928. Serial No. 314,420.

This invention relates to pulley guards and supports, with special reference to types used in connection with single grooved sheaves for supporting clothes lines and other small ropes or cords.

An object of the present invention is to provide a simple but effective device of unusual strength, due to its design and absence of joints as in built-up or pieced construction.

A further feature is in the provision of a hanger of unitary construction, made in an exceptionally economical manner from a sheet of suitable material, substantially without waste.

Another purpose is to produce a unitary hanger of pleasing appearance, readily formed and easily assembled with a pulley.

These objects are attained by the novel design, combination and arrangement of parts hereinafter described and illustrated in the accompanying drawings, forming a material part of this disclosure, and in which:—

Figure 1 is a perspective view of an embodiment of the invention, indicating its application to a conventional pulley shown in broken lines.

Figure 2 is a plan view of one of the blanks as sheared from a sheet of the material.

Figure 3 is a plan view of the blank as flanged and pieced preparatory to bending into the completed shape as shown in Figure 1.

In greater detail the drawings show in Figure 2, a fragment of a sheet or strip 5 of metal, such for instance, as sheet steel, having the ductility and strength required, the width of the sheet being equal to the over all length of the zig-zag blank produced.

The blank comprises a straight central bar element 6, cut diagonally of the sheet, of which it occupies the mid portion, and formed at the ends of this element are arms 7—8, of uniform length which extend at right angles to the bar element 6 and in opposite directions.

All these elements are of uniform width and length and can be sheared without producing a kerf or waste of any kind, except small triangles at the ends of the arms, which are finished at right angles squarely across.

These blanks are struck between dies which simultaneously produce flanged edges 9—10 the former extending, at 11, along the adjacent edge of the arm 7 and the flange 10 is continued at 12 along the adjacent side of the arm 8.

Similar flanges 13 and 14 are formed at the same time on the opposite, outer edges of the arms 7 and 8 respectively.

It is to be noted that the outer corners of the bar element 6, at the intersection of the arms 7—8 are levelled leaving flats 15—16, which contain central perforations 17—18, and similar perforations 19—20 are formed in the arms 7—8 near their ends.

If preferred, a central groove 21 may be produced in the bar element 6, the same tending to stiffen the structure when given its final shape, being then disposed at the bight of the loop 22 formed by bending the element to produce parallel sides 6—6′.

The arms 7—8 are similarly bent to produce loops 7—7′ and 8—8′, bringing the perforations 17—20 and 18—19 into register, whereupon the ends of the arms 7—8 are secured, as by spot welding, to the flats 16 and 15 respectively, thus providing a firm and rigid structure of great strength and good appearance.

When the pulley is to be assembled it is entered between the sides of the frame thus produced and a spindle pin passed through the alined pairs of perforations to act as an arbor on which the pulley may freely rotate.

The foregoing description is to be interpreted as illustrative rather than limitative of the invention, of which embodiments may be made including all modifications within the scope of the appended claim.

Having thus described the invention, what is claimed as new and desired to secure by Letters Patent, is:—

A combined pulley guard and hanger stamped from a single piece of sheet metal

to present a central bar member having extensions reaching in opposite directions at right angles from its ends, said bar being bent to produce an open loop extending upwardly and said extensions being looped to encompass the sides of the pulley, the free ends of said side loops being overlapped and secured to the junction of the connected ends, and means to receive a pulley pivot through the double thickness of the end loops.

In testimony whereof I affix my signature.

BERNARD L. POLKOSNIK.