April 2, 1929. W. H. McKISSICK 1,707,560

SAFETY SHEAVE BLOCK

Filed Dec. 27, 1926

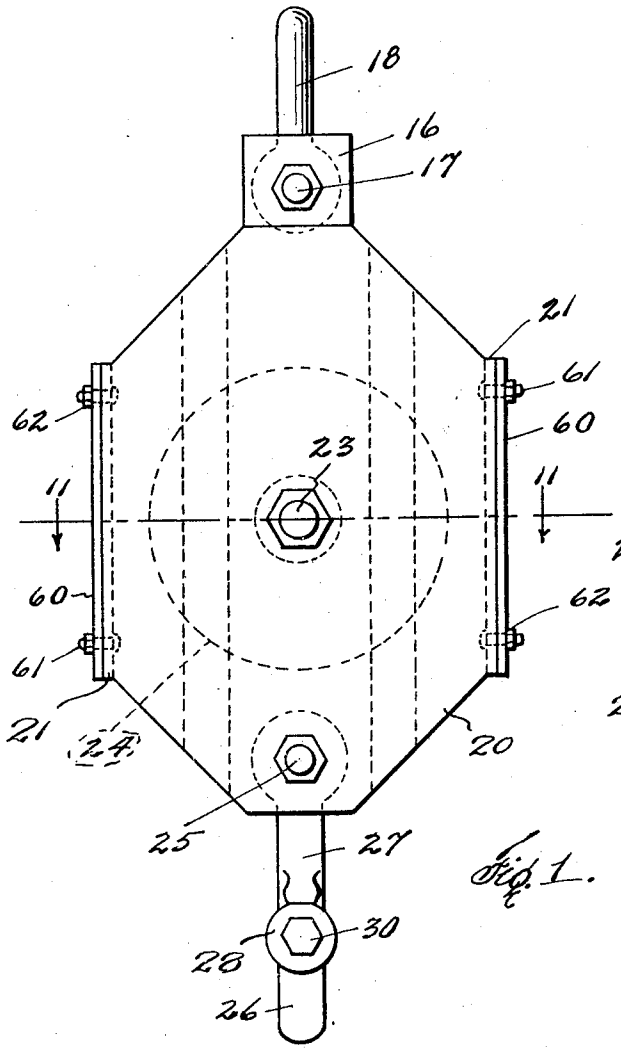


Fig. 1.

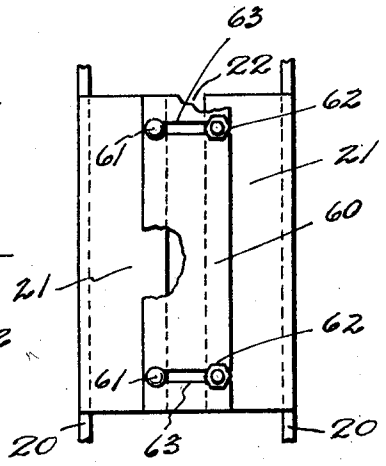


Fig. 2.

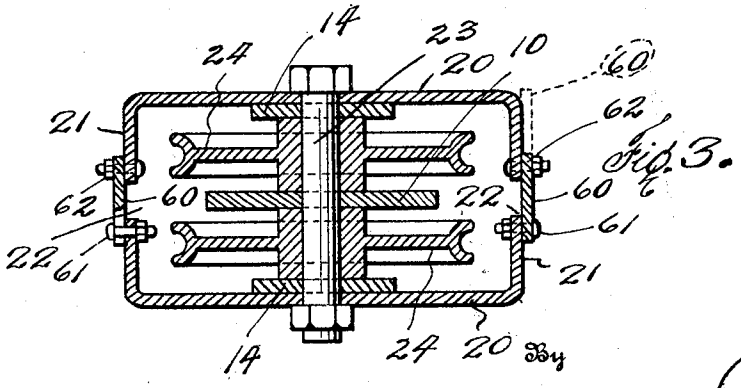


Fig. 3.

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UNITED STATES PATENT OFFICE.

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SAFETY SHEAVE BLOCK.

Application filed December 27, 1926. Serial No. 157,130.

This invention relates to new and useful improvements in safety sheave blocks.

The object of the invention is to provide a sheave block including a housing for the cable lines having guards enclosing the said lines and for protecting the hands of the workmen.

A particular object of the invention is to provide guard means of a stationary character having openings wide enough to permit the passage of a cable line therethrough and movable means mounted to close said gaps.

A construction designed to carry out the invention will be hereinafter described, together with other features of the invention.

The invention will be more readily understood from a reading of the following specification and by reference to the accompanying drawings, in which an example of the invention is shown and wherein:

Fig. 1 is an elevation of the invention,

Fig. 2 is a partial end elevation of the same, showing the cover strips in closed position, and

Fig. 3 is a horizontal cross-sectional view taken on the line 11—11 of Fig. 1.

In describing the invention the parts will be assumed to be in a vertical position and the housing considered to have vertical side plates and transverse closures extending vertically of said plates, as will be hereinafter described.

In the drawing the numeral 10 designates a central partition plate forming part of a housing. Vertical side bars 14 are spaced from each side of the plate and have ears 16 which receive the upper becket bolt 17 upon which the becket 18 is hinged. It will be seen that the block is suspended by the upper becket and the load carried by the plate 10 and the bars 14.

Side housing plates 20 are secured to the outer sides of the bars 14 and have their upper and lower edges inclined. These side plates are considerably wider than the bars 14 and extend beyond the plate 10 and the ends of the blocks. Each plate has at each side edge a transverse vertical inwardly directed guard flange 21 as is shown in Figs. 1 to 3 inclusive. The flanges of one plate are directed toward and into approximately the same transverse vertical planes as the flanges of the other side plate. The adjacent vertical edges are spaced sufficiently to form vertical restricted line gaps or openings 22, wide enough to permit the passage of a cable line therethrough.

A sheave bolt 23 is passed transversely through the center of the housing and the parts 10 and 14. On each side of the partition plate 10, a sheave or pulley 24 is journaled on the bolt 23. The gaps 22 are located opposite the vertical side edges of the plate 10 and between the sheaves. By this arrangement, the cable lines are within the guard flanges and the workman's hands are protected therefrom; however a line may be removed from a sheave, pulled to the center of the housing and out through the gaps.

A lower becket bolt 25 is passed through the lower ends of the parts 10, 14 and 20. A lower becket comprising a hook member 26 and a keeper member 27 is hinged on the bolt on each side of the plate 10. The keeper member 27 has spaced ears 28 at its lower end secured to the upper end of the bill of the hook member by a locking bolt 30. When it is desired to thread the lower becket the bolt 30 is withdrawn and the keeper member 27 is swung to one side. While I have shown this particular form of becket together with other details, the invention is not to be limited thereto.

For closing the gaps 22 I provide cover strips 60. Each strip extends the length of the flanges 21 and overlaps the adjacent vertical edges on each side of the gap. The strips are mounted on the outer faces of the flanges and secured by studs 61 and bolts 62. The studs engage in transverse slots 63 in the strips and are secured to one flange, while the bolts are inserted in the other flange. To open the block the bolts 62 are removed and the cover strips are slid to one side by reason of the slots 63.

Various changes in the size and shape of the different parts, as well as modifications and alterations, may be made within the scope of the appended claims.

What I claim is:

1. In a safety sheave block, a support, a sheave journaled on the support, a housing stationary on the support and having oppo-

site restricted line gaps, and cover strips for said gaps mounted to be moved to open said gaps.

2. In a safety sheave block, a support, a sheave journaled on the support, a housing immovably fastened on the support and including inwardly directed guard flanges extending transversely of the sheave, said housing having vertical line gaps contiguous to the free vertical edges of the flanges, and cover strips removably fastened over the said gaps of the housing.

In testimony whereof I affix my signature.

WILLIAM H. McKISSICK.