March 15, 1927.

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D. S. DILLENBACH

TWINE AND ROPE CUTTER

Filed June 19, 1926

Fig. 1.

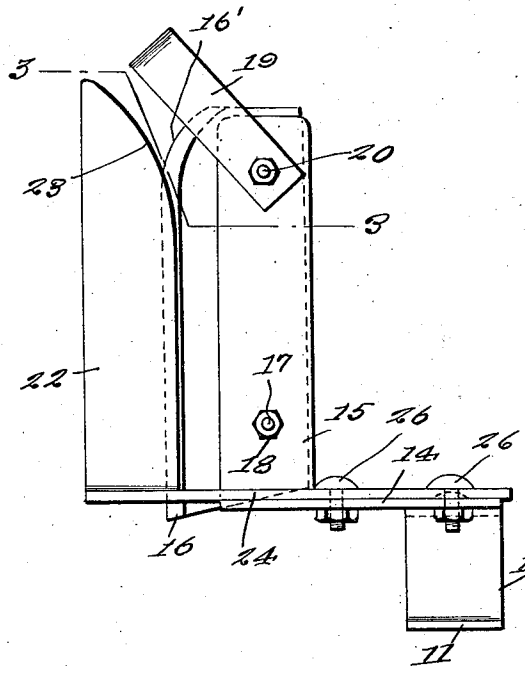


Fig. 2.

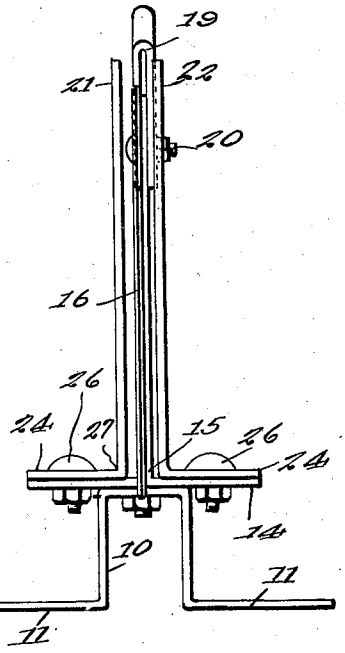
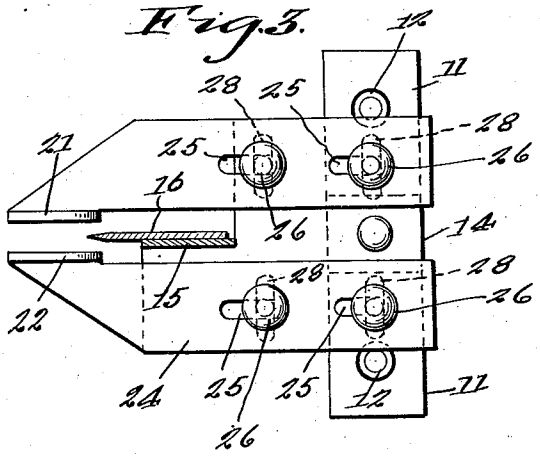


Fig. 3.



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WITNESS:

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UNITED STATES PATENT OFFICE.

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TWINE AND ROPE CUTTER.

Application filed June 19, 1926. Serial No. 117,124.

The object of this invention is to provide a knife mounting device and protecting means for the blade, the mounting means being adapted for support on a desk or other stationary element, so that the twine may be cut by drawing the latter along the blade, instead of applying the blade to the twine, as when an ordinary knife is employed for the cutting operation.

A further object is to provide particular adjustments of the type indicated below.

A further object is to provide, in connection with a supporting bracket, a frame carried thereby and having a portion upwardly deflected and constituting a knife support, and a knife guard for cooperation with the blade, the guard including parallel elements each having a foot portion formed thereon, for adjustable connection with the supporting frame.

With the foregoing and other objects in view, the invention consists in the novel construction and arrangement of elements described, illustrated and claimed, it being understood that modifications may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming part of the application,

Figure 1 is a view of the device in elevation.

Figure 2 is also in elevation, from another angle, or looking from the left in Figure 1.

Figure 3 is a section on line 3—3 of Figure 1, a considerable portion of the structure being in top plan.

In carrying out the invention I provide a bracket which may be of U-form and which includes the central portion 10 and the laterally extending foot members 11 adapted to be secured to a stationary element by securing devices passing thru apertures 12.

Secured to the bracket, and especially to portion 10 thereof is a frame including the horizontal plate portion 14, and the upwardly deflected portion 15 forming a blade mounting device. The blade 16 is secured to element 15 in any suitable manner, as by means of screws 17 retained by nuts 18. The lower end of blade 16 projects below the plate portion 14 on the frame, as shown in Figure 1, and in connection with the description of the blade and mounting means, reference may now be made to a U-shaped guard 19 adapted to extend at an incline across the upper portion of the blade, leaving sufficient room for the insertion of the twine below said guard member 19. The element 19 being of U-form, straddles the element 15 and the blade secured thereto, and is retained by screw 20.

A guide for the cord, and a guard or shield for the knife includes parallel upwardly extending elements 21 and 22 adapted to overlap the vertical edge of the blade 16, the members 21 and 22 being cutaway and providing curved edges at 23, so that the cord or rope to be cut may be passed along these edges 23 and into direct contact with the edge 16′ of the blade 16. It will be convenient under certain conditions to pass the cord in a horizontal direction, into engagement with knife 16, and this may be done by utilizing that portion projecting below horizontal plate 14, as illustrated in Figure 1.

The vertically extending guard members or shield members 21 and 22 are provided with foot portions such as 24, slotted at 25, so that adjustment is permitted with reference to screws 26 extending thru said foot members, and thru the plate portion 14 of the frame. The guard members are bent at a right angle at the points 27, and each consists of a vertical portion and a horizontal portion. The screws 26 pass thru slots 25 as stated, and also pass thru slots 28 in the plate 14, the slots last named extending in another direction, so that every facility possible for adjustment is afforded. Screw 17 also extends thru a slot 17′ in element 15, in order to permit of adjustment of the blade or knife.

Having described the invention what is claimed is:—

1. In a device of the class described, a knife blade, a vertical support therefor, a plate member carrying said support and extending horizontally, means for mounting the plate member, a shield comprising a plurality of members overlapping the edge of the blade for a portion of its length, these members each including a foot portion, and means for adjustably mounting the foot members on the plate.

2. In a device of the class described, a knife blade, a vertical support therefor, a plate member extending horizontally from said support and formed thereon, means for mounting the plate members, a shield comprising a plurality of members having their upper portions cut away and curved toward

the blade, these members each including a foot portion, and means for adjustably mounting the foot portions on the plate.

3. In a device of the class described, a knife blade, a vertical support therefor, a plate member carrying said support, means for mounting the plate member, a shield partly overlapping the edge of the blade and comprising a plurality of parallel members, each including a foot portion, the foot portions being adjustably mounted with reference to the plate member, said foot portions being slotted in one direction, and the plate member being slotted in another direction.

4. In a device of the class described, a knife blade, a vertical support therefor, means adjustably mounting the blade on the support, said blade having an upper end portion cut away and formed with a cutting edge, and a shield partly overlapping the edge of the blade, the lower end of the blade projecting beyond the shield, and a second shield connected with the blade support, and extending over a portion of the cutaway end of said blade.

In testimony whereof I affix my signature.

DANIEL S. DILLENBACH.