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CABLE CLAMP

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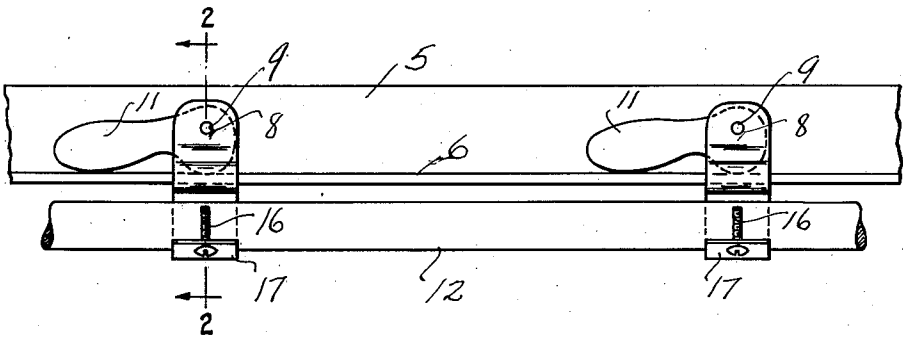


Fig. 1

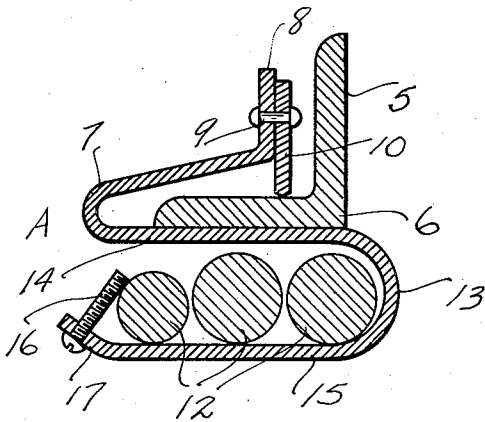


Fig. 2

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CABLE CLAMP

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1 Claim. (Cl. 248—68)

1

This invention relates to improvements in clamps and has particular reference to an electric conductor or cable clamp.

The principal object of the invention is the provision of a cable clamp that is so constructed as to be quickly and easily detachably secured in operative position to conveniently suspend lengths of cable of varying diameters.

A further object of the invention is the provision in the clamp of means to eliminate accidental displacement of the clamp from a supporting base and to likewise eliminate accidental displacement of the suspended cables from the clamp.

An additional object of the invention is the provision of a clamp of the character described that is economical to manufacture, simple in construction, positive in operation, strong, durable and highly efficient in use.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is a side elevational view of a pair of clamps secured to a supporting medium and showing a cable suspended from the clamp, and

Fig. 2 is an enlarged transverse vertical section through the clamp and a supporting medium, the view being taken on the line 2—2 of Fig. 1 and looking in the direction of the arrows.

In the shipbuilding industry numerous cables are temporarily strung to perform various necessary work. Since these cables and clamps are temporarily positioned, it is most desirable that some type of clamp should be provided that will produce a positive clamping means for the cable and yet will be so constructed that it can be quickly and easily attached and detached from a clamp supporting medium. To therefore provide the trade with such a type of clamp I have devised the present invention.

Referring to the drawing the numeral 5 designates one of a plurality of beams, angle irons or the like that is welded to the bulkhead, sides or like parts of a ship. To the base portion 6 of the angle iron I propose to detachably secure my improved clamp. Said clamp is designated as a whole by the reference character A and embodies in its construction a substantially V-shaped upper portion 7 equipped with a vertical extension 8 that is pivotally secured as at 9 to the cam portion or rounded base 10 of an operating handle 11. It will be noted and obvious that a camming action

2

will be effected between the cam 10 and the upper surface of the base portion 6 of the angle iron when the handle 11 is moved from a vertical position to a horizontal position. The medium for nesting cables 12 of varying diameters in the clamp comprises a substantially U-shaped frame or yoke 13, the upper portion of the U being formed by the lower portion of the V-shaped member.

As disclosed to advantage in Fig. 2, it will be noted that the upper face 14 of the frame engages the angle iron while the spaced face 15 supports therein the referred to cable. To prevent accidental displacement of the cable a screw or like retaining element 16 is detachably positioned in the upwardly bent end 17 of the face 15.

In practice the clamps are spaced approximately 10 feet apart on the angle iron. The screw element 16 being lowered permits the cables to assume the nested position disclosed in Fig. 2, and prevents accidental displacement of the cables from their nested position. The handle 11 is normally in an upright or vertical position, and actuation of the handle will cause it to assume the position of Fig. 1 and will effect a camming action of the same with the base of the angle iron to securely retain the clamp thereon. When it is desired to remove the clamp the handle is again moved upwardly and a ready detaching of the clamp from the supporting base can be effected.

It is to be understood that the form of the invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the shape, size, material and arrangement of parts may be readily resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:

A clamp for suspending cables from an angle iron or the like, comprising a V-shaped upper portion and an integrally formed U-shaped cable retaining portion positioned below said upper portion, the base of said U-shaped portion having an elongated flat configuration throughout the greater portion of its length and capable of supporting thereon a plurality of cables of varying diameters, an upwardly bent end provided on the base, a retaining element detachably secured to said bent end to retain the cables in a nested position and preventing accidental displacement of the cables from the base, a vertical extension formed on said upper portion, and a lever pivoted to the vertical extension and having a cam portion provided with a sharpened edge, said lever capable of being moved from a vertical position

to a horizontal position to bring the cam portion thereof into locking engagement with the angle iron.

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5

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