

June 2, 1931.

P. J. MARTIN

1,807,993

CABLE GRIP

Filed Oct. 4, 1929

Fig.1.

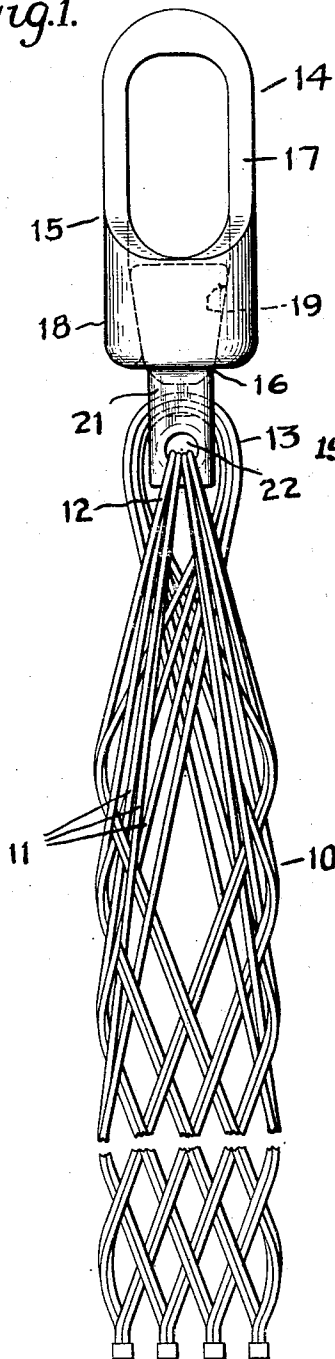


Fig.2.

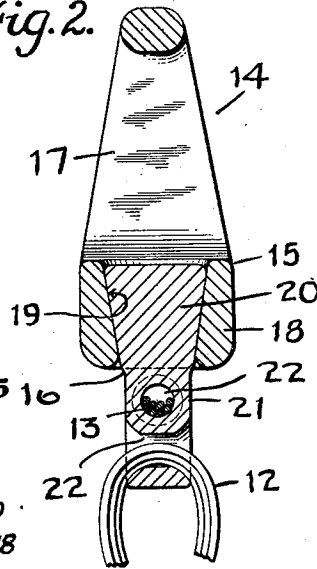


Fig.5.

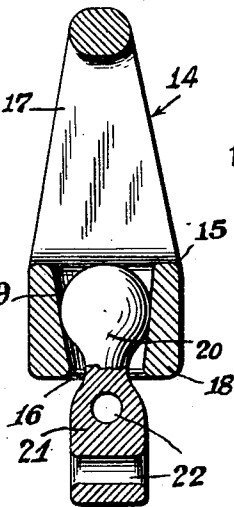


Fig.3.

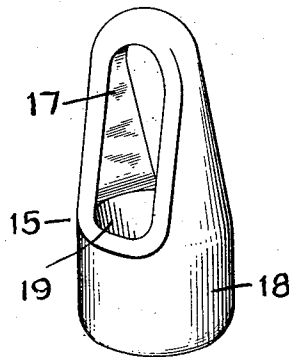
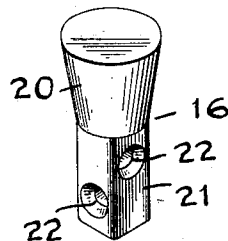


Fig.4.



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CABLE GRIP

Application filed October 4, 1929. Serial No. 397,213.

The invention relates to improvements in woven cable grips. These grips are well known in the art and consist of a plurality of strands of wire or wire cord which are diagonally woven or interlaced to form an open mesh capable of contracting radially when extended lengthwise and of expanding radially when contracted lengthwise.

The present invention relates particularly to the draft heads or lugs for cable grips of this character.

In my copending application, Serial No. 375,567, filed July 2, 1929, I provide a draft head or lug which permits of great flexibility in the cable grip and allows the stresses and strains developed when the cable grip is in operation to be evenly distributed or equalized over all the wires and strands of the grip.

In accordance with the present invention all the advantages of the device in my aforesaid copending application are retained and in addition the lug acts as a swiveled draft head which has distinct advantages when in use or operation.

Further objects and advantages will be brought out as this specification proceeds. Referring to the drawings forming a part thereof:

Fig. 1 is a side elevation of a cable grip showing my improved lug or draft head in place thereon, the intermediate part of the grip being broken out for economy of space;

Fig. 2 is a longitudinal sectional view of the draft head, taken at right angles to Fig. 1;

Fig. 3 is a perspective view of the eye and socket member of the draft head;

Fig. 4 is a perspective view of the tapered plug and shank member of the draft head; and

Fig. 5 is a fragmentary sectional view of a modified form.

Referring again to the drawings and particularly to Fig. 1 the reference numeral 10 designates the woven open mesh cable grip. Grips of this type being well known in the art it is not thought necessary to enter into a detail description at this time. The grip is formed of a plurality of diagonally interwoven strands of wire or wire cord 11 which

are formed into an open mesh hollow body, cylindrically shaped. The tubular open mesh of wire strands thus formed is bunched or brought together at the draft end. The gripping action of this grip is due to the change in form of the meshes. When a pull is exerted, the meshes are elongated axially and are narrowed circumferentially, thus decreasing the diameter of the grip and causing it to firmly grasp the cable.

The strands 11 at the draft end of the grip as previously stated are brought together where they are preferably separated into a pair of freely formed loops 12 and 13 formed at approximately right angles to each other. However this construction, while preferred, might be widely changed.

The draft head or lug 14 comprises a pair of members in swiveled relation to each other. The member 15 which is termed the eye and socket member is particularly illustrated in Fig. 3 and the member 16 which is termed the plug and shank member is shown in perspective in Fig. 4.

The member 15 has the eye portion 17 to which the draw rope may be attached. The body portion 18 of this member is provided with a tapered socket 19.

The member 16 has the tapered plug 20 which engages the socket 19 and the depending shank 21 which is provided with a plurality of apertures 22 through which the loops 12 and 13 pass.

The opening in the eye 17 is of sufficient length to readily allow the plug and shank member 16 to be inserted or withdrawn for assembling purposes.

While an exceedingly simple form of swiveled draft head has been illustrated and described, it is desired to point out at this time that numerous changes might be made and will be regarded as coming within the spirit of the invention and the scope of the appended claims. As previously stated the tubular mesh 10 might be secured in the numerous ways to the shank 21. The nature of the swivel joint might also be widely varied, for instance, as indicated in Fig. 5 relieving or cutting away the sides of the plug 19 so as to secure a universal joint effect in addition

to the swivel or the eye and socket member might be made of two or more pieces.

I claim:

5 1. A cable grip having diagonally interwoven strands separated at one end into a plurality of freely formed loops, and a draft head for said cable grip, said draft head comprising two members one swiveled within the other and one of said members provided with
10 a plurality of apertures through which said loops freely pass.

2. A draft head for a cable grip formed of a tubular woven mesh of wire strands bunched together at one end, said draft head
15 comprising a pair of members, one member having an eye and a socket portion and the other member engaging said socket portion and having a depending shank to which said mesh is secured.

20 3. A draft head for a cable grip formed of a tubular woven mesh of wire strands bunched together at one end, said draft head comprising a pair of members, one member having an eye and a socket portion and the
25 other member engaging said socket portion and having a depending shank provided with a plurality of apertures through which the strands in the bunched end of said mesh may freely pass.

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