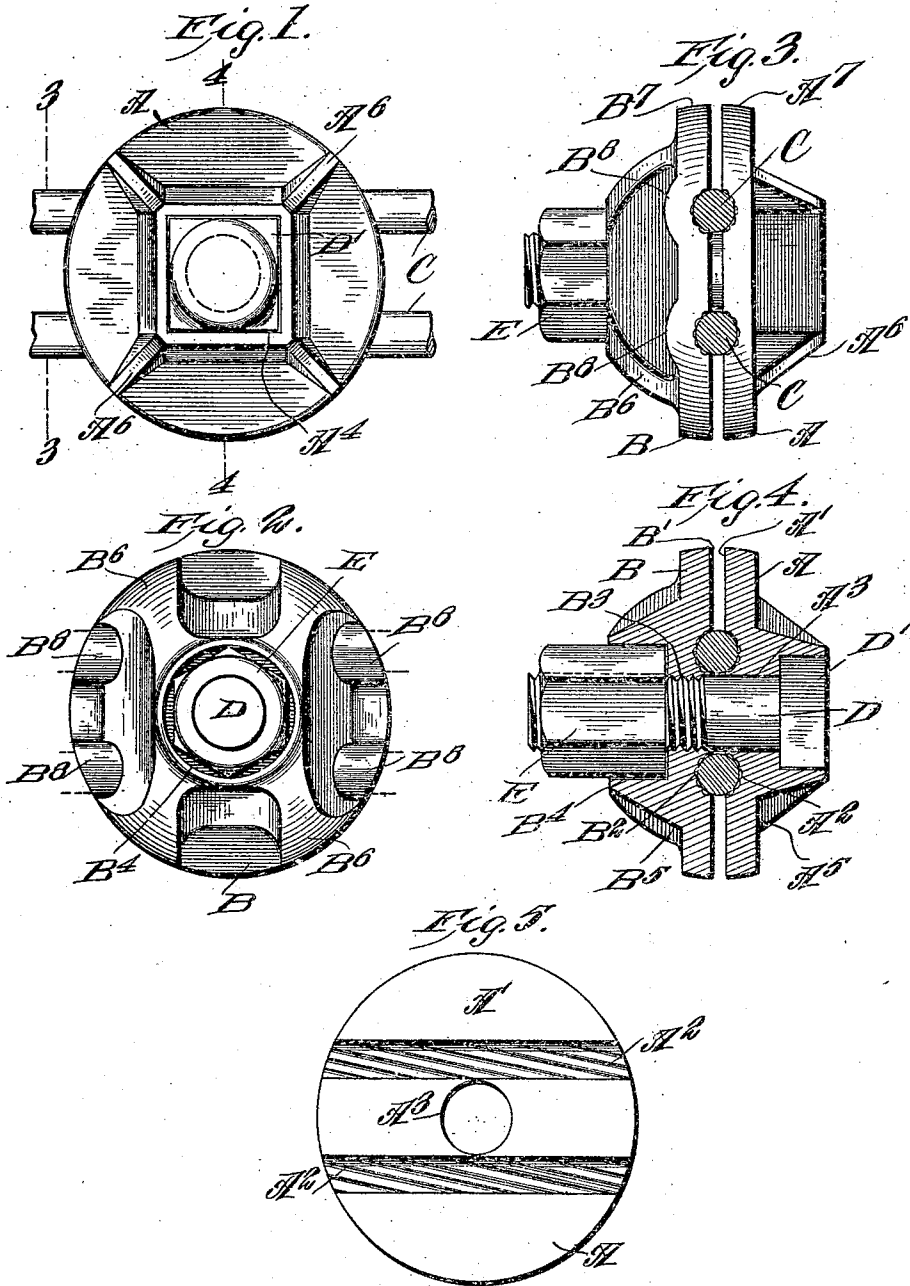


C. A. McCARTHY.
WIRE ROPE CLAMP.
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951,095.

Patented Mar. 1, 1910.



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WIRE-ROPE CLAMP.

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To all whom it may concern:

Be it known that I, CHARLES A. MCCARTHY, a citizen of the United States, and a resident of Hattiesburg, in the county of Forrest and State of Mississippi, have made certain new and useful Improvements in Wire-Rope Clamps, of which the following is a specification.

This invention is an improvement in clamps for rope, especially designed for use with wire rope; and the invention consists in certain novel constructions and combinations of parts as will be hereinafter described and claimed.

In the drawing—Figure 1 is an elevation of one side of the clamp as in use. Fig. 2 is an elevation of the opposite side of the clamp. Fig. 3 is a sectional elevation on about line 3—3 of Fig. 1. Fig. 4 is a cross section on about line 4—4 of Fig. 1, and Fig. 5 is a view of the inner face of one of the sections.

As shown, the clamp comprises the sections A and B, whose inner faces are formed in flat planes B and A' and are provided with the transverse grooves A² and B², which are shown as parallel with each other, and with the grooves in the opposite sections arranged to register when the clamp is adjusted for use as will be understood from Figs. 1 and 5, and combining to form channels in which the wire cables C may be clamped as the sections A and B are pressed together. To this end the sections are provided with the central bolt holes A³ and B³, and the clamping bolt is passed through said sections and is threaded to receive the nut E, which may be screwed up on the bolt to press the sections tightly together. The bolt has an angular head D', which is seated in a corresponding socket A⁴ in the outer face of the section A, and the nut E turns within the socket B⁴ in the outer face of the section B, as shown in Figs. 2 and 4 of the drawing, the nut being of sufficient length to permit the sections to be adjusted sufficiently apart without detaching them to permit them to be applied to and removed from the wire cables without entirely separating the sections.

In producing the sockets A⁴ and B⁴, the sections are cored out at their outer faces A⁵ and B⁵ surrounding the central portions in which the sockets are produced. The walls or ribs A⁶ and B⁶ of the said cored

out portions operate to brace the main plates A⁷ and B⁷ of the clamp sections, and the main plate B⁷ of the section B is provided at its outer side with bosses B⁸ reinforcing the channeled portions of the said section, as will be understood from Figs. 2 and 3 of the drawing.

An important feature of my invention is the means whereby I provide a practical one bolt clamp, and in doing this it will be noticed that I arrange the grooves A² in close proximity to the bolt holes so that the strain of the bolt is exerted almost directly upon the cables when the latter are in the grooves, and upon the outer side of the socket receiving the head of the bolt I provide a squared portion, see Fig. 1, which forms a wrench head, so that the wrench can be put on the said head and cooperate with the wrench on the nut so a powerful strain will be exerted in tightening the clamp upon the cables. Furthermore, this socket formation for the reception of the head of the bolt is such that the bolt head reinforces the wrench head and supports the same when the strain of the wrench is exerted thereon. Furthermore, by seating the bolt head in the socket and the nut also in the socket I am able to bring the bolt head and the nut in close proximity avoiding any considerable length of bolt between the head and the nut whereby I reduce the risk of twisting the bolt in the operation of tightening the clamp. It will also be noticed that the ridged construction surrounding the socket for the nut enables me to manufacture the clamp of sufficient strength at a comparatively low cost. Furthermore, by seating the nut in the socket formed therefor I am able to bring the nut in close proximity to the cables and to provide a nut of sufficient length to have the desired strength when but a single nut is employed. The nut also operates when in the position shown in Fig. 4, to reinforce the walls of its socket and prevent any collapsing thereof in the operation of the invention.

I claim—

1. A clamp substantially as herein described composed of two sections, the inner face of each being formed in a flat plane, and provided with transverse grooves, with the grooves in the opposite faces registering to form a channel for a rope, and the outer faces of the sections having cored out por-

tions and central sockets the outer walls of said sockets forming a wrench seat with the walls of the cored out portions forming braces for the sockets, and the main plates of the sections, and one of the sections being provided on the outer side of its main plate with bosses reinforcing the grooved portions, and the sections being provided with central bolt holes opening into the sockets, a bolt passed through said bolt holes and having a head fitted and held from turning in one of the sockets and a nut fitting on the bolt and turning within the other socket, all substantially as and for the purposes set forth.

2. A clamp composed of a pair of sections provided in their inner faces with grooves, with the grooves in the two sections registering to form rope channels, the said sections being provided with bolt holes, and in their outer sides with sockets with which the said bolt holes communicate, a bolt having its head held from turning in the socket of one of the sections, said section having an annular wrench head at the outer side of said socket and a nut on the said bolt and

turning in the socket of the other section, substantially as set forth.

3. A clamp substantially as herein described composed of two sections having registering central bolt holes, and provided in their inner faces with registering grooves on opposite sides of and in close proximity to the said bolt holes, the said sections being provided in their outer faces, one with a socket for a bolt head, and having the outer side of said socket angular to furnish a wrench seat, and the other section being provided in its outer side with a socket for a nut, a bolt passed through said sections and having its head seated in its respective socket, and a nut on the bolt and projecting at its inner end within the socket whereby it may be adjusted in comparatively close proximity to the grooves and projecting at its outer end beyond its socket, all substantially as and for the purposes set forth.

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Witnesses:

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