

J. J. PIPER.
WIRE CABLE CLAMP.
APPLICATION FILED JUNE 6, 1910.

982,742.

Patented Jan. 24, 1911.

Fig. 1.

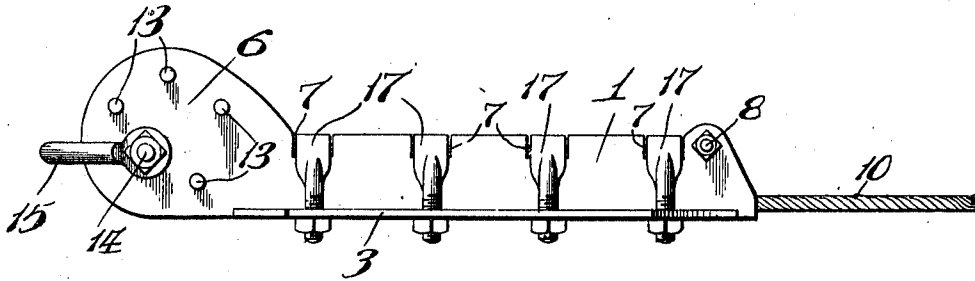


Fig. 2.

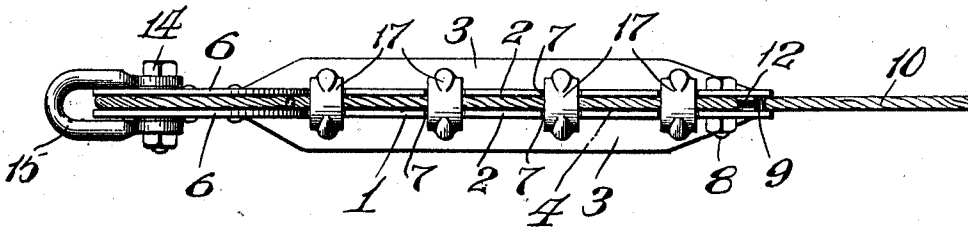


Fig. 3.

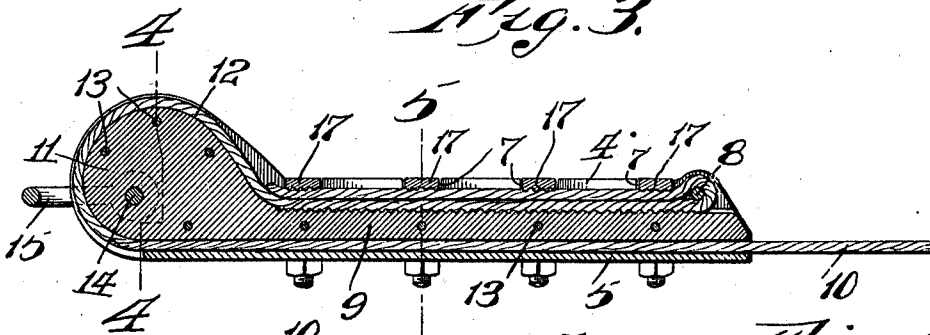


Fig. 4.

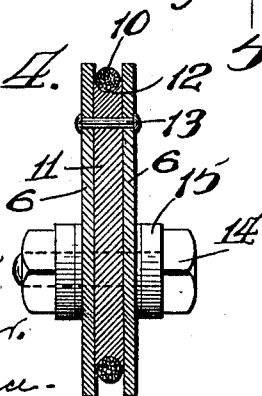
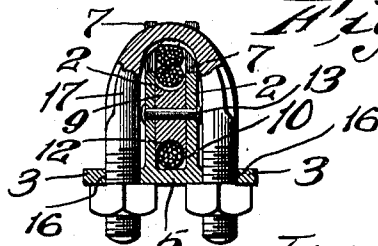


Fig. 5.



attest:

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UNITED STATES PATENT OFFICE.

JAMES J. PIPER, OF CENTRALIA, ILLINOIS.

WIRE-CABLE CLAMP.

982,742.

Specification of Letters Patent.

Patented Jan. 24, 1911.

Application filed June 6, 1910. Serial No. 565,355.

To all whom it may concern:

Be it known that I, JAMES J. PIPER, a citizen of the United States, and resident of Centralia, Marion county Illinois, have invented certain new and useful Improvements in Wire-Cable Clamps, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in wire cable clamps, the object of my invention being to construct a simple, inexpensive device which can be readily clamped on to or removed from a wire cable for connecting devices to such cable, and which, when applied to the cable, will not kink or injure the same when strain is applied to the cable.

My device is especially useful in connecting the cable to heavy loads.

For the above purposes my invention consists in certain novel features of construction and arrangement of parts as will be hereinafter more fully described, pointed out in the claims and illustrated by the accompanying drawing, in which:

Figure 1 is a side elevation of my invention applied to the end of a cable; Fig. 2 is a top plan view; Fig. 3 is a longitudinal mid section of Fig. 2; Fig. 4 is an enlarged, cross section taken on the line 4—4 of Fig. 3; and Fig. 5 is an enlarged section taken on the line 5—5 of Fig. 3.

Referring by numerals to the accompanying drawing: 1 indicates the main casing of the clamp which is preferably cast out of malleable iron. The said casing is provided with parallel walls or flanges 2 and, projecting laterally from said walls or flanges 2 are the side flanges 3.

4 indicates the space or opening between the walls or flanges 2 which extends longitudinally throughout the casing and is closed at its bottom by a wall 5.

The flanges or walls 2 terminate in an enlarged portion 6.

The clamp may be constructed of various sizes, that is to say for use on various diameters of wire cable, and in such cases it is only necessary to have the opening or space between the walls or flanges 2 of sufficient width to accommodate the required diameter of cable.

The top edges of the flanges or walls 2 are provided with recesses 7 and with openings in which a removable bolt or pin 8 is located.

9 indicates a filler block which is positioned between the flanges or walls 2 in the space or opening 4, the lower edge of which is positioned away from the wall 5 to accommodate the insertion or passage of a wire cable such as 10 between its lower edge and the wall 5. The said filler block 9 is provided with an enlarged rounded end 11 corresponding in shape with the enlarged portion 6 of the flanges or walls 2. The filler block 9 is provided throughout on its bottom and top edges and enlarged portion 11 with a semicircular groove 12, the groove in the top edge being corrugated or roughened. The filler block 9 is secured in the casing 1 between the walls or flanges 2 by means of rivets 13.

Formed in the enlarged portion 6 of the flanges or walls 2 and through the enlarged portion 11 of the filler block 9 is an opening in which opening a bolt 14 is located for the purpose of securing a clevis 15 to the clamp.

The flanges 3 are provided with openings 16 in which are located the screw threaded ends of the clips 17, said clips 17, when drawn, will be seated in the recesses 7 as illustrated in Figs. 1, 2, 3 and 5.

In applying my clamp to the end of a cable I proceed generally as follows: The free end of the cable is threaded through the opening beneath the filler block and passed around the enlarged portion 11 of the same, disposed on the corrugated or roughened face of the filler block, passed beneath the pin 8 and then folded upon itself beneath the clips 17. The clips 17 are then tightened clamping the overlapping portion of the cable on to the portion of the same lying directly beneath it. The clips 17, or more specifically speaking, the under sides of the bows thereof are corrugated or roughened.

From this construction and operation it will be seen that the terminal portion of the cable is clamped and held between two roughened or corrugated surfaces and that the cable is clamped tightly between the enlarged portion 11 of the filler block and the pin 8, and when strain is applied to the cable it will be taken up practically before it reaches the abrupt bend of the cable over the pin 8, in other words, the greater part of the strain will be taken up or transmitted to the enlarged portion 11 of the filler block.

It will thus be seen that my clamp can be easily and quickly applied and removed

from a cable and will not injure the cable and thus increase the life of the cable.

I claim:

1. A clamp, comprising a casing, a filler
5 block located in the casing, an opening between the lower edge of the filler block and bottom wall of the casing, a bolt positioned in the casing above the filler block and a series of screw threaded clips mounted in
10 said casing.

2. A clamp, comprising a casing, a filler
block provided with an enlarged rounded
end disposed in said casing, the lower edge
of which is spaced apart from the bottom
15 wall of said casing, a bolt located in the casing and spaced apart from the top edge of the filler block, a section of cable embracing the filler block and said bolt and a series of clips mounted in the casing, for se-
20 curing the cable over a portion only of the margin of the filler block.

3. A clamp, comprising a casing having
laterally projecting flanges and an enlarged
end, a filler block having an enlarged end,
25 the said filler block being located in said

casing, a bolt located in the casing, a section of cable embracing the filler block and said bolt, and screw threaded clips located in said casing, for securing the cable over a portion only of the margin of the filler
30 block.

4. A clamp, comprising a casing having
laterally projecting flanges and an enlarged
end, a filler block having an enlarged end,
the said filler block being located in said
35 casing, a bolt located in the casing, screw threaded clips embracing the casing and having their ends secured in said flanges, a section of cable embracing the filler block and said bolt and secured by said clips over
40 a portion only of the filler block, and a clevis secured to the casing.

In testimony whereof, I have signed my name to this specification, in presence of subscribing witnesses.

JAMES J. PIPER.

Witnesses:

WM. G. MURPHY,
JOSEPH YERLY,
ANNA CLORE.