F. P. KOBERT.

LINE OR CABLE CLAMP.

APPLICATION FILED JULY 2, 1912.

1,103,056. Patented July 14, 1914.

Fig. 1.

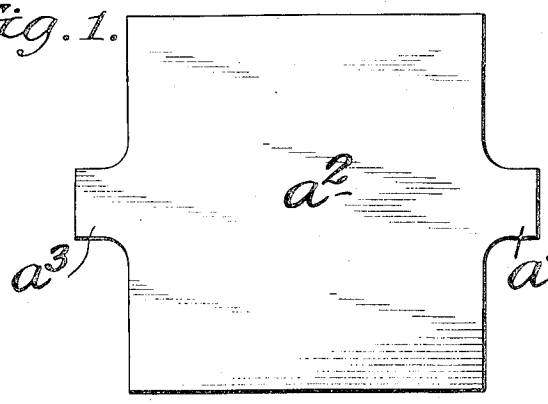


Fig. 2.

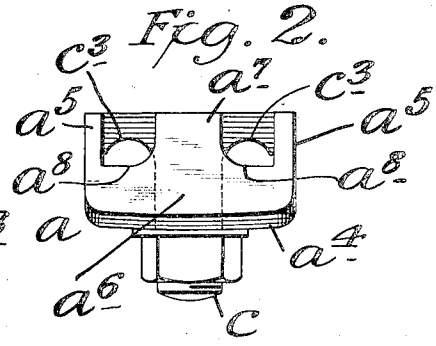


Fig. 3.

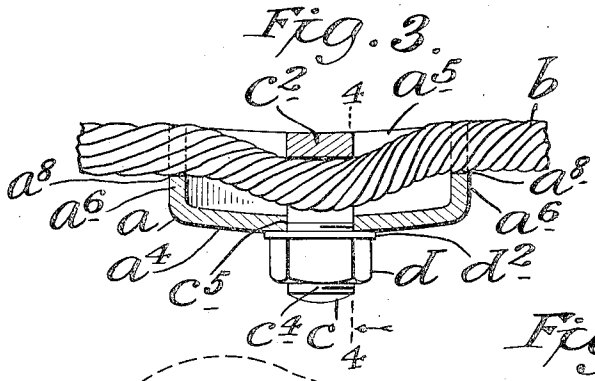


Fig. 4.

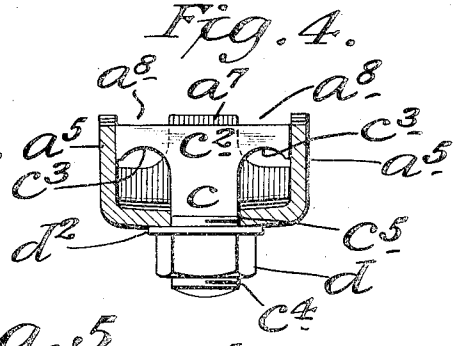


Fig. 5.

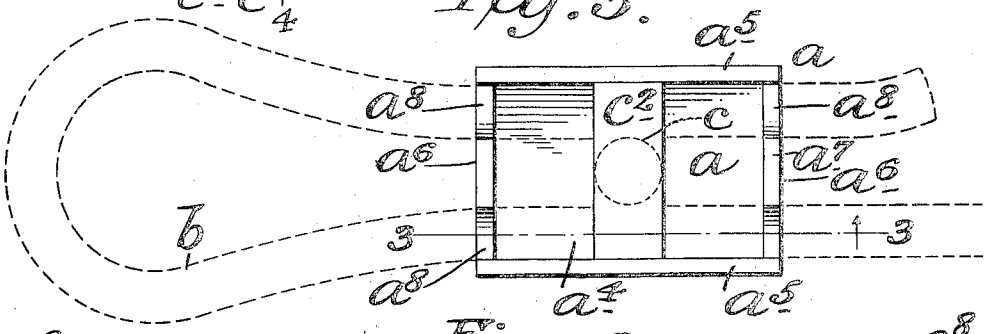
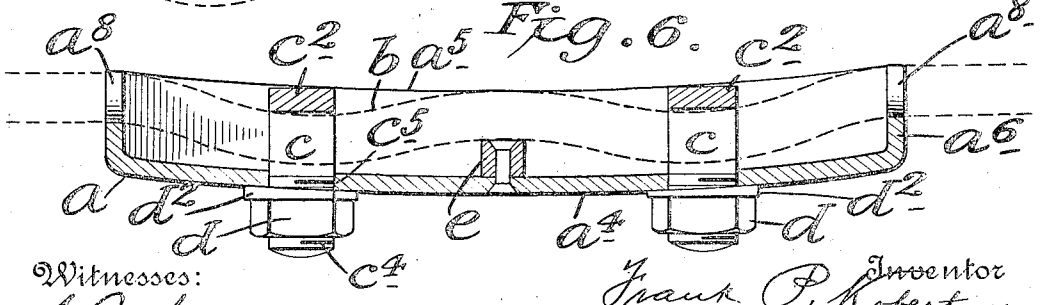


Fig. 6.



Witnesses:

A. R. Appleman

L. D. Collins.

Inventor

Frank P. Kobert

By his Attorneys Edgar Tate & Co.

UNITED STATES PATENT OFFICE.

FRANK P. KOBERT, OF FAIRHAVEN, CONNECTICUT, ASSIGNOR TO THE BARNES & KOBERT MANUFACTURING COMPANY, OF NEW HAVEN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

LINE OR CABLE CLAMP.

1,103,056. Specification of Letters Patent. Patented July 14, 1914.

Application filed July 2, 1912. Serial No. 707,245.

To all whom it may concern:

Be it known that I, FRANK P. KOBERT, a citizen of the United States, and residing at Fairhaven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Line or Cable Clamps, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to rope, line, or cable clamps, and the object thereof is to provide a clamp particularly adapted for use in connection with wire ropes or cables, but which may, if desired, be used in connection with ropes, lines or cables of any material or class, and which is simple in construction, efficient in operation and convenient of manipulation.

The invention is fully disclosed in the following specification of which the accompanying drawing forms a part, in which the separate parts of my invention are designated by suitable reference characters in each of the views, and in which;—

Figure 1 is a blank, from which the main part of my clamp is formed; Fig. 2 an end view of the clamp complete; Fig. 3 a longitudinal section on the line 3—3 of Fig. 5; Fig. 4 a transverse section on the line 4—4 of Fig. 3 with the cable removed; Fig. 5 a plan view of the clamp and showing the cable in dotted lines, and; Fig. 6 a view similar to Fig. 3, but showing a modification, and showing the cable in dotted lines.

In the practice of my invention I provide a clamp device of the class specified involving in its construction a box-shaped member a formed from a blank a^2 which is preferably approximately rectangular in form and the end portions of which are provided centrally with extensions a^3.

The blank a^2 which is composed of steel is drawn, pressed, or stamped into the box-shaped form a comprising a bottom a^4, side members a^5 and end portions a^6 having central raised members a^7 formed by the end projections a^3 of the blank, and in this operation the bottom a^4 is crowned or made concavo-convex so as to give strength to the box- or box-shaped member a of the clamp.

In the above described operation, the raised portions a^7 of the end members a^6 form in connection with the side members a^5, end recesses a^8 through which the line, rope, or cable b or the separate parts thereof, pass, and I also provide a bolt c having a transverse head c^2 the length of which is approximately the same as the transverse inner dimensions of the box member a, and the head c^2 of the bolt c is provided in the under side thereof with recesses c^3 and said bolt is threaded, as shown at c^4, and is passed downwardly through the box-shaped member a, or through an aperture c^5 formed centrally in the bottom a^4 of said box-shaped member, and said bolt is provided with a nut d and washer d^2.

From the foregoing description it will be seen that the box-shaped member a is open at the top, and in practice the rope, line or cable, or the separate parts thereof are laid therein longitudinally thereof, after which the bolt c is passed downwardly through the bottom a^4 of the box-shaped member a with the transverse head c^2 thereof resting on and binding the said rope, line, or cable, and the nut d is screwed onto said bolt, sufficient force being exerted in this operation to bend down or compress the rope, line, or cable b, or the separate parts thereof, as shown in Fig. 3, and securely clamp or hold the same in the box-shaped member a.

It will be noted that the bolt head is located at a considerable distance from the end portions a^6 of the box shaped body and as the recesses formed in said end portions to receive the cable do not extend to the bottom of the device the cable is deflected out of a straight line by the clamping portion of head of the bolt. The ends of the clamping head have a guiding engagement with the side members a^5 of the hollow body which prevents the bolt from turning, thus holding it in proper relation with the portions of the cable and also facilitating the turning up of the nut.

It will also be seen that my invention involves only two parts, the box-shaped member a and the bolt c having the transverse head c^2, said parts being constructed as shown and described, the bolt d and washer d^2 being common devices of their class.

In Fig. 6, I have shown a modification in which the box shaped member a is elongated and two of the bolts c employed, and in this form of construction the box-shaped member a is provided with a transverse

raised bar or similar device *e* which is secured therein and to the bottom a^4 of said box-shaped member and over which the rope, line, or cable, or the separate parts thereof, are passed. It will be understood that this form of clamp is employed where greater strength is required, and by means of my improvement I provide a clamp device of the class described possessing the greatest possible strength in proportion to the material employed, and which, while answering all the requirements of a clamp of this class, can be made at a minimum cost and applied and used in the simplest and most effective manner.

Having fully described my invention what I claim as new and desire to secure by Letters Patent is:—

1. In a clamp of the class described, a hollow body formed of thin metal and having a bottom and struck-up lateral and end walls forming reinforcements for the bottom and stiffening the hollow body longitudinally and transversely, the end walls being provided with recesses of less depth than said walls, a clamping bolt extending through the bottom plate at a considerable distance from both the recessed end walls and having a head disposed transversely of the body and lying within the lateral walls, and at a considerable distance from each end wall, whereby said head will engage the strands of a cable and deflect them out of a straight line, and the recesses in the end walls will hold the cable strands against lateral displacement.

2. In a clamp of the class described, a hollow body formed of thin metal and having a bottom, and lateral and end walls, the end walls being provided with recesses of less depth than said walls, said body having its greatest length between said recessed walls and a clamping bolt extending through the bottom plate, at a considerable distance from both the recessed end walls, and having a head disposed transversely of the body, and lying within the lateral walls, the end faces of said head engaging the inner faces of the said lateral walls to prevent the rotation of the bolt with respect to the said body, and a nut on said bolt whereby said head will engage the strands of a cable at a considerable distance from the points of engagement of the end walls therewith, and deflect the same toward the bottom of said hollow body.

3. In a clamp for rope or cable, the combination with a hollow body having a bottom and side and end portions, the end portions being provided with recesses of less depth than said end portions, said bottom being provided with a central transverse raised portion, of a bolt passing through said bottom on each side of said raised portion, and located at a distance therefrom and from the adjacent end portion, said bolts having clamping heads extending transversely of the hollow body, and having flat end portions in guiding engagement with the side portions of said hollow body, and nuts on said bolts whereby the heads of said bolts will engage the cable strands at considerable distances from said end portions, and from said centrally transverse raised portion, and will readily deflect them toward the bottom of said hollow body.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 28th day of June 1912.

FRANK P. KOBERT.

Witnesses:

C. MULREANY,

S. ANDREWS.