E. H. AHLANDER.

GIRDER CLAMP.

APPLICATION FILED MAR. 30, 1916.

1,202,640. Patented Oct. 24, 1916.

Fig. 1.

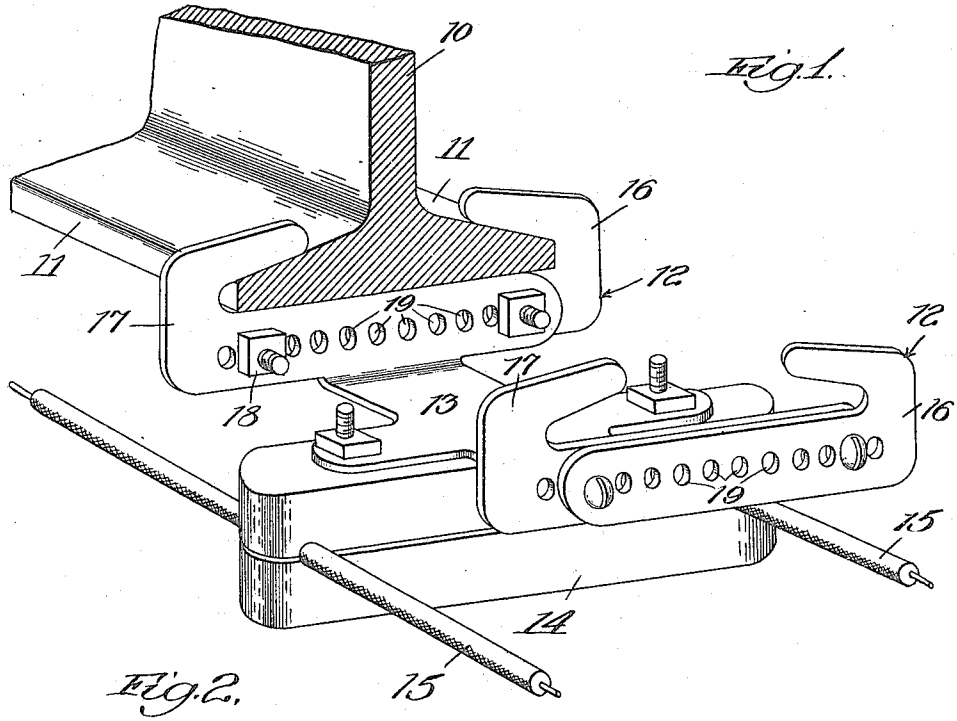
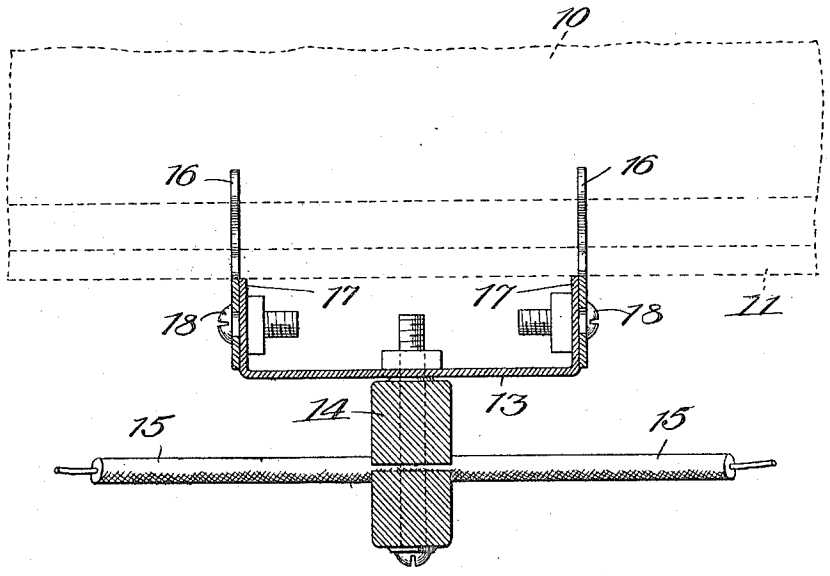


Fig. 2.



Witnesses:

Inventor:

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THE NORR'S PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ERNEST H. AHLANDER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE THOMAS WRIGLEY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

GIRDER-CLAMP.

1,202,640. Specification of Letters Patent. Patented Oct. 24, 1916.

Application filed March 30, 1916. Serial No. 87,692.

To all whom it may concern:

Be it known that I, ERNEST H. AHLANDER, a citizen of the United States, residing at 2658 Kimball avenue, Chicago, in the county of Cook and State of Illinois, have invented a new and useful Girder-Clamp, of which the following is a specification.

My invention relates to certain new and useful improvements in girder clamps.

It is the object of the invention to provide a simple and strong design of clamp, adapted for attachment to the flanged base of a girder for supporting electrical conductors, conduit, pipe and the like.

The invention will be more fully understood from the following specification taken in connection with the accompanying drawing in which:

Figure 1 is a perspective view of a girder clamp constructed in accordance with my invention and used for supporting a pair of insulated electrical conductors, a girder to which the clamp is designed to be attached being shown in broken section, and Fig. 2 is a longitudinal section through the girder clamp shown in Fig. 1, the girder being illustrated in dotted lines.

Referring more particularly to the drawings the numeral 10 designates the web of a girder and the numeral 11 of the flanges thereof. For attachment to a girder of this form my clamp is provided with a pair of C-clamps, which are generally designated by the numeral 12, these members being connected by bridge 13, spaced away from the lower face of the girder. The bridge 13 supports a depending porcelain cleat 14 which carries a pair of insulated conductors 15. In the particular form of the invention illustrated by the drawing, each of the C-shaped clamp sections 12 is formed of two members 16 and 17, and members 17 being preferably integral with the bridge 13, and being disposed both on the same side of the center line of the bridge, the opposite half of each C-clamp being formed by a separate member 16. In order to adapt a single clamp for use on girders of varying sizes, the sections 16 and 17 are relatively adjustable as by means of bolts 18 which pass through apertures 19 in the overlapping end of the clamp sections, there being provided a plurality of these apertures as illustrated by the drawing.

Owing to its design the form of girder-clamp illustrated may be constructed entirely of stamped sheet metal of relatively light gage and may therefore be manufactured most economically. Although of the lightest and simplest construction however, my girder-clamp possesses ample strength for the purposes for which it is intended, the distribution of metal in each part of the clamp being such as to give to the relatively light construction a high degree of rigidity. The fact that the bridge member 13 which supports the cables 15 is itself spaced away from the surface of the beam, enhances the desirability of the structure since it increases the air gap between the charged conductors and the metallic beam and at the same time makes for facility in attaching the insulator or cleat 13 to the bridge member.

While I have shown and described in considerable detail one specific embodiment of my invention, pointing out some of the advantages which inhere in this particular construction as applied to a particular class of service, it is to be understood that this showing and description is illustrative only and for the purpose of making my invention more clear, and that I do not regard the invention as limited thereto except in so far as such limitations have been included within the terms of the following claims in which it is my intention to claim all novelty inherent in my invention as broadly as is permissible in view of the prior art.

What I claim as new and desire to secure by Letters Patent is:

1. In a device of the class described, a bridge-member carrying at each end thereof an upstanding clamp-section for engagement with an overhead girder, a pair of complementary clamp-sections, and means for attaching each of said last-named sections to

one of said bridge-clamp sections to form a complete clamp for supporting the said bridge.

2. A device of the class described comprising a pair of generally C-shaped clamp members, spaced apart and adapted to engage the flanges of a girder, each of said members consisting of relatively adjustable sections, a bridge member formed integrally with those clamp sections lying on one side of the center line and supported by them in spaced relation to the girder, and means for attaching an article to be supported to the said bridge member.

ERNEST H. AHLANDER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."