G. W. CHAFFIN.

CROSS ARM BRACE.

APPLICATION FILED JUNE 10, 1915.

1,189,059. **Patented June 27, 1916.**

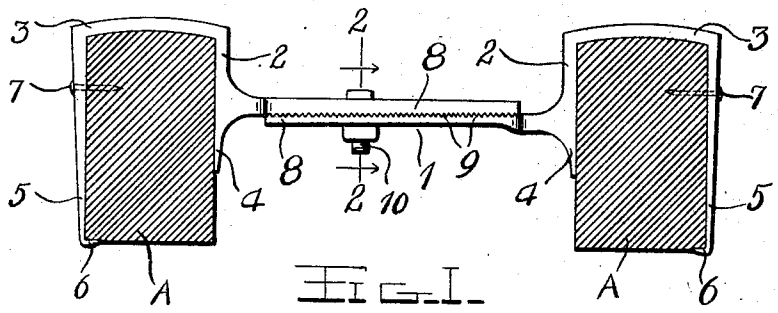


FIG. 1.

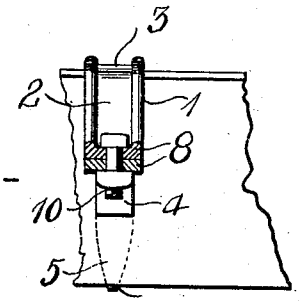


FIG. 2.

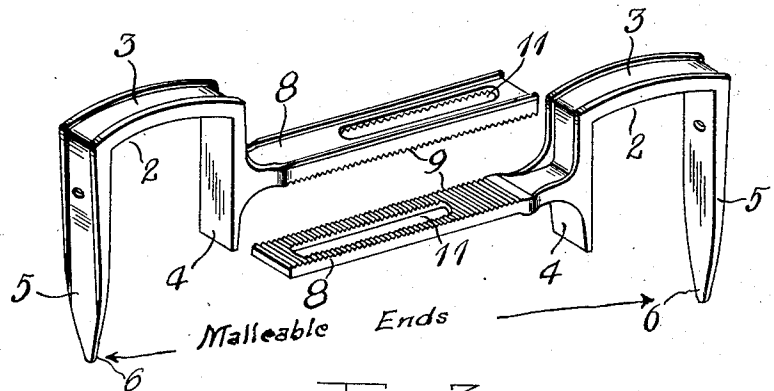


FIG. 3.

Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

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CROSS-ARM BRACE.

1,189,059. Specification of Letters Patent. Patented June 27, 1916.

Application filed June 10, 1915. Serial No. 33,321.

To all whom it may concern:

Be it known that I, GEORGE W. CHAFFIN, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Cross-Arm Braces; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in braces for the cross arms of telegraph and telephone poles, the object of the invention being to provide an extremely simple device of this class which may be inexpensively manufactured and marketed, which may be easily applied to use, and which will be efficient and durable in operation.

With this general object in view, the invention resides in certain novel features of construction and in the unique combinations of parts hereinafter claimed and fully described by reference to the accompanying drawing wherein:

Figure 1 is a side elevation of a brace constructed in accordance with my invention, showing the application thereof to use; Fig. 2 is a vertical transverse section as seen on the plane designated by the line 2—2 of Fig. 1; Fig. 3 is a disassembled perspective view of the brace.

In this drawing wherein like reference characters designate corresponding parts throughout the several views, A indicates a pair of horizontally disposed cross arms lying in the same horizontal plane, such arms being braced in respect to each other by the device 1 which constitutes one embodiment of the invention.

The device 1 includes a pair of U-shaped holders 2 which are adapted to be forced astride of the arms A as clearly disclosed in Fig. 1, each member 2 having a rigid arch 3 and a pair of rigid legs 4 and 5, the legs 5 being preferably of greater length than the legs 4 and being provided with malleable ends 6 to be clenched around the arms A when the improved brace is applied to use, thus preventing removal of the holders 2, while the latter are anchored against shifting, by nails or other fasteners 7 driven through openings in the legs 5 into the arms A.

Projecting laterally from the legs 4 of the two holders 2, are rigid brace arms 8 which may be secured together in overlapped relation by practically any preferred means. In the present embodiment of the invention, however, the abutting faces of said arms are shown as provided with interengaging teeth 9 which are held in engagement with each other by a clamping bolt 10 which passes through registering slots 11 in the two arms. By this means, the two arms 8 are rigidly yet adjustably connected in an efficient manner, but it will be understood that clamping means other than the bolt 10 could well be provided for anchoring said arms.

The device constructed as above described is preferably formed of but two castings, all parts being properly reinforced by ribs or the like and being heavily tinned or galvanized to prevent rust.

In the drawings, certain specific details of construction have been illustrated for accomplishing probably the best results, and in the foregoing such details have been described, but it will be evident that I need not be restricted thereto otherwise than to the extent to which the appended claims limit me.

I claim:—

1. A cross arm brace comprising a one-piece U-shaped holder whose legs are adapted to straddle a cross arm, both of said legs being straight throughout their lengths for close contact with said cross arm and one of said legs being of a length to extend beyond said arm, said last named leg having a malleable end to be clenched around one edge of the cross arm to retain the holder thereon, a brace member extending rigidly from the other arm of said holder, and means for anchoring said brace member.

2. A cross arm brace comprising a one-piece U-shaped holder whose legs are adapted to straddle a cross arm, both of said legs being straight throughout their lengths for close contact with said cross arm and one of said legs being of a length to extend beyond said arm, said last named leg having a malleable free end to be clenched around one edge of said arm to retain the holder in operative position thereon, the other leg of the holder having formed integrally therewith a brace arm extending laterally therefrom and having a longitudinal slot, said brace arm also having a series of transverse

teeth; a second holder substantially identical with the first, the brace arms of the two being overlapped with their teeth in engagement and with their slots in register, and a clamping bolt passing through said slots.

3. A cross arm brace comprising a U-shaped holder, the legs of said holder being adapted to straddle a cross arm and one of said legs being of a length to extend beyond said cross arm, the free end of said last named leg being malleable to allow it to be clenched around one edge of the cross arm, the other leg of the holder having a brace arm extending laterally therefrom, said holder and the brace arm being integral and formed of cast metal; a second holder and brace arm constructed in substantially the same manner as the first, and means for adjustably securing the two brace arms together.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GEORGE W. CHAFFIN.

Witnesses:

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