B. HASKELL.

TELEGRAPH POLE AND THE LIKE.

APPLICATION FILED JUNE 14, 1913.

1,105,777. Patented Aug. 4, 1914.

Fig. 1.

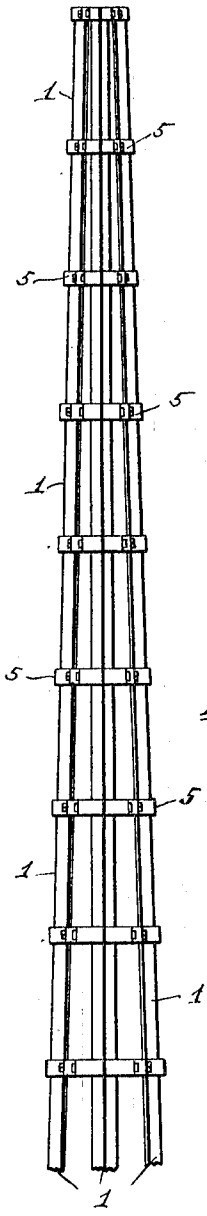


Fig. 2.

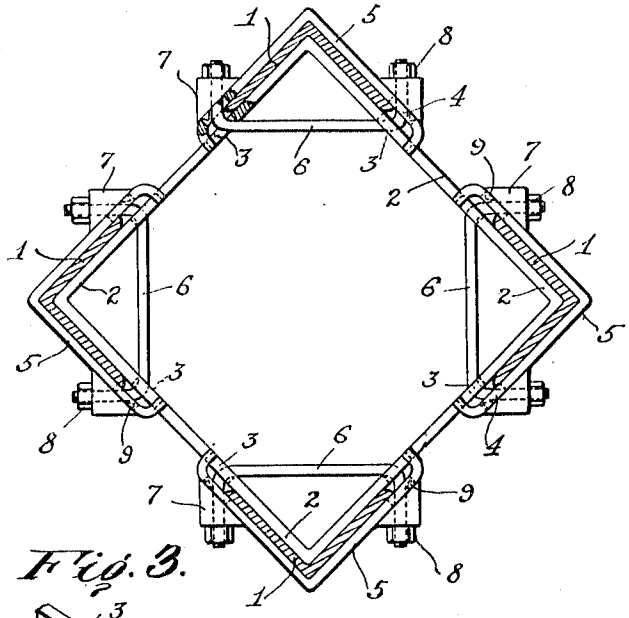


Fig. 3.

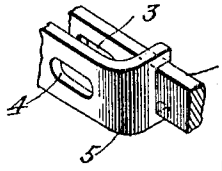


Fig. 4.

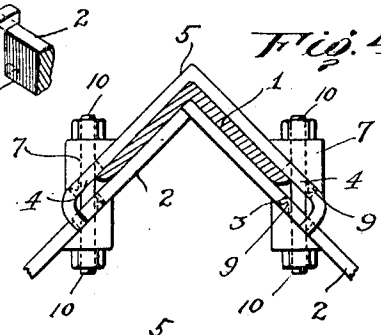
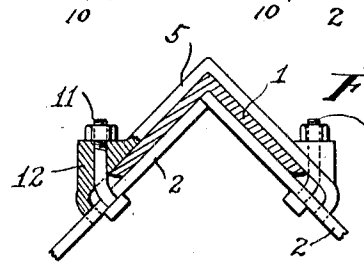


Fig. 5.



Witnesses

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TELEGRAPH-POLE AND THE LIKE.

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Application filed June 14, 1913. Serial No. 773,636.

To all whom it may concern:

Be it known that I, BRODERICK HASKELL, citizen of the United States, residing at Franklin, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Telegraph-Poles and the like, of which the following is a specification.

My invention relates to the construction of metallic poles designed especially for telegraph or other overhead wire supports, and particularly to a type of such poles wherein a series or plurality of upright legs are held in proper spaced apart relation by a series of transverse bands secured thereto at proper intervals.

The matters of invention in the present instance relate to a construction whereby I am enabled to securely and rigidly bind said uprights and transverse bands together without the use of rivets or any like permanent fastening means, but such means being easily applied when the pole is set up, and removed when the pole is taken apart, and no parts being welded to the pole when set up, or destroyed when taken apart.

The invention will be clearly understood from the following detailed description taken in connection with the accompanying drawings, and the matters of novelty will thereafter be particularly pointed out in the appended claims.

In the drawings in which similar reference characters indicate the same parts in the several figures of the drawings: Figure 1 shows a side elevation of an assembled pole constructed in accordance with the principles of my invention; Fig. 2 is a transverse section on an enlarged scale, the same showing a transverse band and locking devices in elevation; Fig. 3 is an enlarged and fragmentary perspective view of one of the locking members; Fig. 4 is an enlarged and fragmentary sectional view of a modified form of locking means; and Fig. 5 is a similar view of a further modified form of fastening means.

The upright or longitudinal members 1 of the pole are preferably four in number and as shown are preferably formed into angle iron form from bar stock. The transverse inner bands 2 are likewise formed of plate or sheet metal or cast metal of suitable width and are of such shape and configuration to fit into the angular corners of the uprights 1. Said bands 2 may be of two pieces instead of one, and abutting in the corners of the uprights 1, as shown in Figs. 4 and 5, if so desired, without departing from the spirit of my invention. Elongated holes 3, 3, are provided in the bands 2 and of such a distance from the corners as to be just outside of the upright edges of the longitudinal members 1.

Clips 5 of angular form and having the ends turned inward and preferably notched, so as to engage on each side of the bands 2, as shown in Fig. 3, when said clips 5 are placed on the outer surface of the upright members at each of the corners of the bands, are provided with holes 4 for the purposes to be presently described. Bolts or studs 6 preferably U-shaped are passed through the holes 3 of the bands 2, and holes 4 of the clips 5, and beveled washers 7 on the outside of the clips 5 (see Fig. 2), and when nuts 8 are tightened up, the uprights 1, and transverse bands are securely held in place, and a pole of rigid construction is formed. The beveled washers 7 may be provided with small lips 9 to engage the edge of the holes 4 of the clips 5 to prevent said washers from slipping when the nuts 8 are screwed up to tighten the bolts 6. Instead of the bolts being U-shaped as shown in Fig. 2, two separate bolts 10 with two washers 7 may be employed, as shown in Fig. 4. If so desired two bent bolts 11 of the shape shown in Fig. 5 with one end having a head, may be employed, with the use of only one washer 7. Said washer 7 may also be made integral with the clip 5 in any of the forms, as shown at 12 in Fig. 5, if found convenient.

From the foregoing disclosure, it will be seen that I have devised a metallic pole which can be quickly manufactured at small cost and readily assembled or taken apart, and the parts composing the pole are strongly and efficiently drawn together with the least effort, and are capable of resisting great bending stresses to which such structures are subjected.

What I claim is:—

1. A pole comprising a plurality of separated angular uprights, inner transverse bands abutting against the inner side of said uprights, separate and independent clips surrounding and abutting against the corners of the outer side of each of said uprights and their ends extending over and

beyond the edges of the uprights, and means engaging the ends of each of the clips for drawing said bands into the angle of the uprights and the clips against the outside of said uprights.

2. A pole comprising a plurality of separated angular uprights, inner transverse bands seated in the angle of said uprights, outside clips surrounding the corners of said uprights and their ends abutting against said bands, and means for drawing said clips and bands together and against said uprights.

3. A pole comprising a plurality of separated angular uprights, transverse bands abutting against the inner side and seated in the angle of said uprights and having holes near the outer edges of the uprights, separate and independent clips surrounding and abutting against the corners of the outer side of each of said uprights and their ends extending over and beyond the edges of the uprights, and having holes corresponding to the holes of said bands, and means passing through the holes of said bands and clips for drawing said bands into the angle of the uprights and the clips against the outside of said uprights.

4. A pole comprising a plurality of separated angular uprights, inner transverse bands seated in the angle of said uprights and having holes near the outer edges of the uprights, separate and independent outside angular clips surrounding the corners of each of said uprights and having holes at their ends corresponding to the holes of said bands and their ends extending over and beyond the edges of the uprights and abutting against said bands, and U-shaped bolts passing through the holes of the bands and clips for drawing said clips and bands together and against said uprights.

5. A pole comprising a plurality of separated L-shaped uprights, inner transverse bands seated in the angle of said uprights and having holes near the outer edges of the uprights, outside clips surrounding the corners of said uprights and having holes corresponding to the holes of said bands and their ends abutting against said bands, beveled washers at the holes in said bands and bolts passing through the washers and holes of the bands and clips for drawing said clips and bands together and against said uprights.

6. A pole comprising a plurality of separated L-shaped uprights, inner transverse bands seated in the angle of said uprights and having holes near the outer edges of the uprights, outside clips surrounding the corners of said uprights and having holes corresponding to the holes of said bands and their ends abutting against said bands, beveled washers on said bands having lips engaging the edges of the holes in the bands, and bolts passing through the washers and holes of the bands and clips for drawing said clips and bands together and against said uprights.

In testimony whereof I affix my signature in presence of two witnesses.

BRODERICK HASKELL.

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."