

969,859.

Patented Sept. 13, 1910.

Fig. 1.

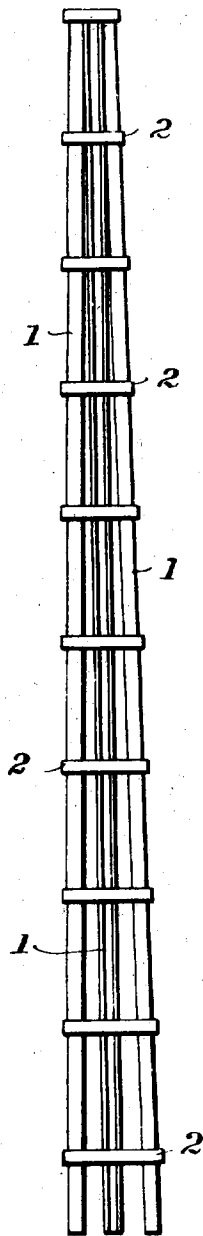


Fig. 2.

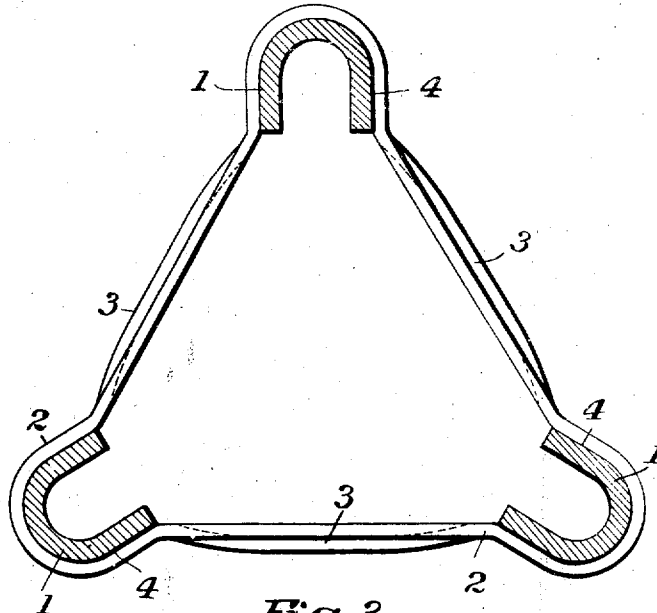


Fig. 3.

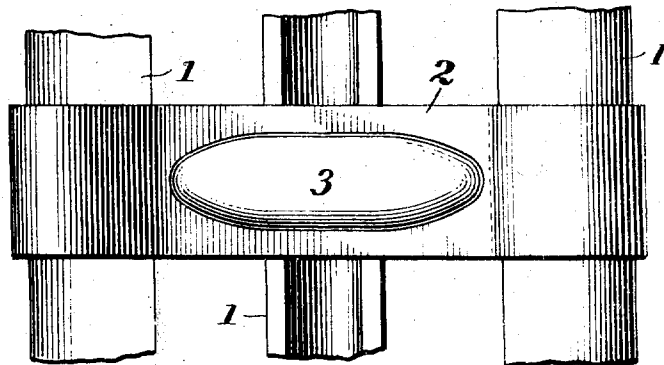
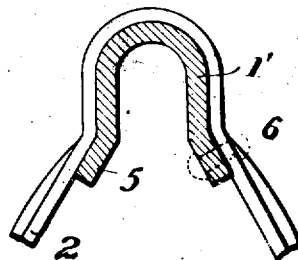


Fig. 4.



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TELEGRAPH-POLE AND THE LIKE.

969,859.

Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed May 22, 1909. Serial No. 497,727.

To all whom it may concern:

Be it known that I, BRODERICK HASKELL, a 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 improvements in metallic poles for telegraphs and the like and the same has to do particularly with a type of such poles made up of a series of preferably three uprights or legs the same being secured together in proper spaced relation by a series of transverse bands or hoops fixedly engaged therewith at suitable intervals in the length of such uprights. Poles made up in this general manner are known in the art, and my present invention consists essentially in the construction of a stronger and more rigid pole of fewer parts, and at the same time I am enabled to effect economies and saving of time in construction.

My 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.

Referring to said drawings; Figure 1 is an elevation showing a general view of a telegraph or like pole constructed in accordance with my invention. Fig. 2 is an enlarged transverse section adjacent one of the securing bands or hoops. Fig. 3 is a like side elevation showing one of the bands in position on the uprights, and Fig. 4 is a sectional detail view showing a modified form in certain particulars.

The series of uprights 1, preferably three in number are in the illustrated embodiment of the invention made up of plate material formed into U shape, and the same when assembled with the securing bands in place converge toward the top as is usual in this type of pole. The bands 2 are likewise conveniently formed of plate material of suitable width, the same being fashioned into a generally triangular shape with recesses in the corners to closely embrace the said uprights as shown at 4. The straight connecting portions of said hoops, in accordance with my invention, are corrugated or dished as shown at 3 through most of their extent to effect greater strength and rigidity

and for a further purpose which will hereinafter appear.

In the construction of the general type of pole to which my invention belongs, it has been the practice heretofore so far as I am aware to secure the bands to the uprights by bolts or like securing devices passing of course through holes formed in said members. It will be obvious that all such holes tend to weaken the structure as well as requiring time for their production and for the subsequent assembling of the parts.

In carrying out my invention, I assemble the legs or uprights with the transverse bands 2 and secure the same rigidly and effectively by welding, such welding being preferably effected electrically. By this procedure I produce a very strong, substantial pole practically in one piece, and instead of the structure being weakened by bolt holes as heretofore, it is actually strengthened and made more rigid by the welded joints.

I have heretofore referred to the corrugating or dishing of the bands 2. In addition to the strengthening effected by this feature, the same is of importance in connection with the welding operation by which the bands and uprights are united. In carrying out such welding it will be apparent that the heat required will tend to expand and distort the bands 2, and this might even impair the correct proportions and alinement of the pole. By the use of the dished or corrugated form as shown at 3, however, such expansion and tendency to distortion is taken up in the corrugation and does not affect the general relation and alinement of parts to any appreciable extent.

In Fig. 4 is shown a modified form of upright wherein the sides of the U are elongated and flared outward as shown at 5, thus affording a longer engaging surface with the bands and tending to greater rigidity. If desired, I may pass bolts, as 6, through such extensions and the bands, or the same may be welded in the same manner as before described, or both means of securing the parts may be employed.

By arranging the uprights, U-shaped in cross section, so that the inner or concave side of each upright faces the center of the pole, it permits the intermediate sections 3 of each band to expand or contract, due to changes of temperature, for the reason that the inner edges of the uprights can move toward or away from each other.

The broad means for clamping the uprights to the bands, I have claimed in my copending application, Ser. No. 497,728, filed May 22, 1909..

5 Having now fully described my invention, what I claim as new and desire to secure by Letters Patent is as follows:

1. A pole comprising a series of uprights U-shaped in cross section and having the
10 open side inward, said side being entirely free of reinforcing or fastening means, and means for securing the same in spaced apart relation, said means comprising a series of bands encompassing the outer U-shaped side
15 of each of said uprights and permanently connected thereto in the area of such contact.

2. A structure comprising a plurality of longitudinal members U-shaped in cross section and having the open side inward, said
20 side being entirely free of reinforcing or fastening means, and means for securing the same in spaced apart relation, said means

comprising a series of bands wrapped around the outer U-shaped side of each of said members and welded thereto in the area of such
25 contact, said bands having their intermediate portions corrugated for the purpose set forth.

3. A pole comprising a series of uprights U-shaped in cross section and having the
30 open side inward, said side being entirely free of reinforcing or fastening means, and a series of transverse bands surrounding the outer U-shaped side of the uprights and securing the same in spaced apart relation,
35 said uprights and bands being joined by molecular union of the connecting portions thereof.

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

BRODERICK HASKELL.

Witnesses:

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