





# UNITED STATES PATENT OFFICE.

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## POLE FOR TELEGRAPHS, &c.

No. 835,280.

Specification of Letters Patent.

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*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 an Improvement in Poles for Telegraphs, &c., of which the following is a specification.

My invention relates to poles for telegraphs, &c., and particularly to the structure of the members forming the joints by which the parts of the pole are assembled and securely fastened together.

In carrying out my invention I preferably employ U-shaped uprights or legs, clips conforming to the outer surface of the said uprights and having outturned ends and filler-blocks adapted to fit within and conform to the inner surface of the uprights, each filler-block being provided with a head made to extend beyond the edges of an upright and in the surface of which there is provided a seat for the shank of a bolt or other means which may be employed for drawing the parts together and securing the same in position.

In the drawings, Figure 1 is a cross-section illustrating my improved pole. Fig. 2 is a section through one of the uprights, showing the relation of the parts before the same are drawn together. Fig. 3 is a side elevation of one of the filler-blocks, showing its relative position to the upright and the clip, which latter members are shown in section, and Fig. 4 is a view similar to Fig. 3, showing a modified form of the filler-block.

Referring to the drawings, *a* designates the uprights of a pole or similar structure, which are preferably U-shaped in cross-section.

*b* designates clip members made to conform with the outer surface of the uprights *a*, and the ends 2 of each clip member *b* are preferably outturned. I also employ filler-blocks, (indicated at *c*), each of which is adapted to fit within and to conform to the inner surface of an upright *a* and is provided with a head *d*, having a rounded outer surface terminating in the extremities 3, adapted when the parts are assembled to abut against the inner surface of the outturned ends 2 of the clip members *b*.

As shown in Fig. 3, I prefer to provide the outer curved surface of the head of each filler-block with two semicircular grooves or recesses 4, adapted to form the seats for the shanks of bolts *e*, which are passed through holes provided therefor in the outturned ends of the clip members *b* and by means of

which the respective parts are drawn together, and, as shown in Fig. 4, it will be understood that the block member may without departing from the nature and spirit of my invention be provided with a single groove 4.

The clip members *b* may be connected by means of bars *f*, extending between and connected to the outturned ends 2 of the adjacent grip members by means of rivets 5 or otherwise, and it will also be understood that the connecting-bars *f* may be dispensed with, making each clip member an integral structure.

As shown in Fig. 2, the clip members are preferably forged with the outturned ends 2 thereof at an angle somewhat greater than one hundred and twenty degrees, assuming, of course, that the said clip members are to be employed in a three-upright pole. It will be apparent that in assembling the pole that the first result of drawing up the bolts *e* and making any particular joint will be to force the filler-block into position within the upright and that the further tightening of the bolt will bring the outturned ends 2 of the clip member against the ends 3 of the head *d* of the filler-block, in which position the outturned ends 2 will assume the desired position at an angle of one hundred and twenty degrees and in so doing will cause the clip member *b* to engage and bind the upright *a* between itself and the filler-block.

I claim as my invention—

1. A pole for telegraphs, &c., comprising U-shaped uprights, a unitary filler-block adapted to fit within and to conform to each upright and provided with a head extending beyond the edges of an upright and having a groove therein, and devices encircling each U-shaped member and filler-block at its said head portion for binding the said parts together.

2. A pole for telegraphs, &c., comprising U-shaped uprights, clip members conforming to the outer surface of the said uprights, filler-blocks each adapted to fit within an upright and provided with a head extending beyond the edges thereof and whose outer surface is curved and provided with a groove and curved bolts passing through the said clips seated in the grooves in the curved surfaces of the heads of the filler-blocks.

3. A pole for telegraphs, &c., comprising U-shaped uprights, clip members conforming to the outer surfaces of said uprights and



having outturned ends, filler-blocks each adapted to fit within an upright and provided with a head extending beyond the edges thereof and having a curved face with  
5 a groove therein, bolts passing through the outturned ends of said clip members and seated in the said grooves in the heads of the filler-blocks and means for connecting the outturned ends of the clip members of one  
10 upright with the outturned ends of the corresponding clips of the adjacent uprights.

4. A pole for telegraphs, &c., comprising U-shaped uprights, clip members conforming to the outer surface of said uprights and  
15 having outturned ends, filler-blocks each adapted to fit within an upright and provided with a head extending beyond the edges thereof and having a curved face with a groove therein, bolts passing through the  
20 outturned ends of the said clip members and seated in the said grooves in the heads of the filler-blocks and connecting parts extending between the outturned ends of the clips of one upright and the outturned ends of the  
25 corresponding clips of the adjacent upright and rivets connecting the extremities of the connecting-bars to the outturned ends of the said clips.

5. The combination with each U-shaped  
30 member of a pole for telegraphs, &c., of a filler-block adapted to fit therein and conform thereto and having an outer curved

surface, and devices encircling each U-shaped member and the filler-block at its curved surface for binding said parts together. 35

6. In a pole for telegraphs, &c., a structure comprising a series of U-shaped members, a clip adapted to conform to the outer curved surface of each U-shaped member, a filler-  
40 block adapted to fit within each U-shaped member and provided with a head extending beyond the edges of the same, and means extending over the face of the head of each filler-block and connecting with the said clip  
45 member to bind the filler-blocks and the U-shaped members together.

7. In a pole for telegraphs, &c., a structure comprising a U-shaped member, a clip adapted to conform to the outer curved surface of  
50 the U-shaped member and having outturned ends, a filler-block adapted to fit within the said U-shaped member and provided with a head extending beyond the edges of the same and U-bolts extending over the face of the  
55 head of the filler-block and connecting with the outturned ends of the said clip member to bind the filler-block and U-shaped member together.

Signed by me this 26th day of April, 1906.

BRODERICK HASKELL.

Witnesses:

GEO. T. PINCKNEY,  
BERTHA M. ALLEN.