Sept. 19, 1944. R. E. L. MAXEY 2,358,343

POLE

Filed Dec. 30, 1942

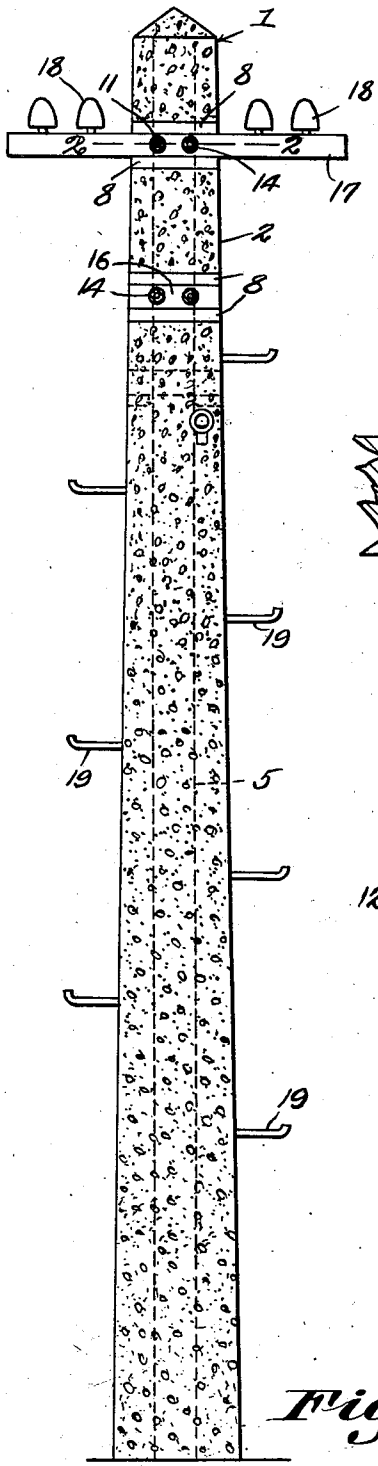


Fig. 1.

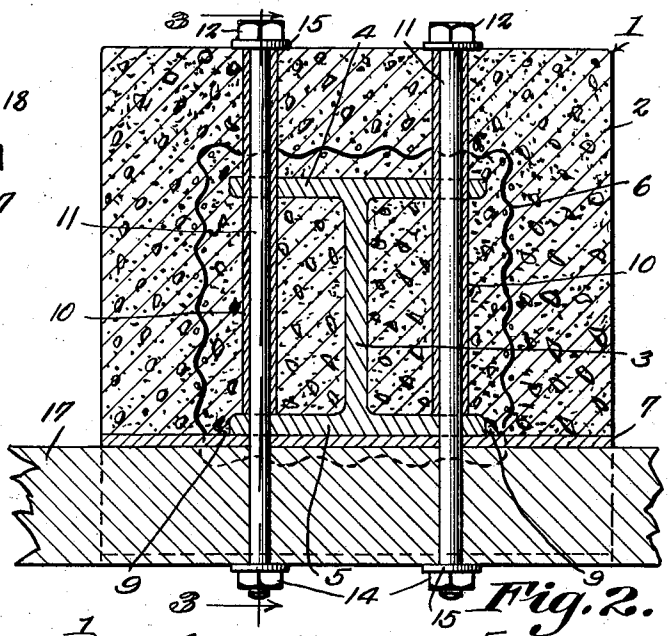


Fig. 2.

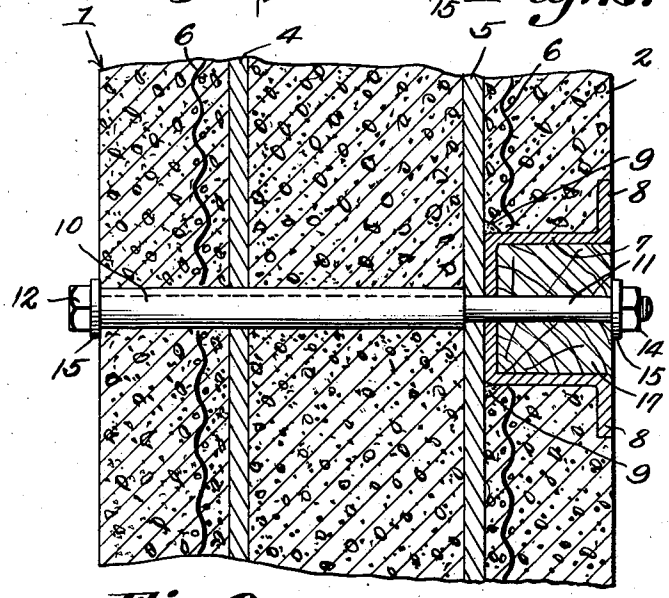


Fig. 3.

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UNITED STATES PATENT OFFICE

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POLE

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Application December 30, 1942, Serial No. 470,612

1 Claim. (Cl. 72—85)

This invention aims to provide a novel reinforced pole, useful for the stringing of telephone wires, telegraph wires and the like. The invention aims, further, to provide novel means for assembling a cross arm with the pole.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawing:

Fig. 1 shows in elevation, a pole constructed in accordance with the invention;

Fig. 2 is a section on the line 2—2 of Fig. 1;

Fig. 3 is a section on the line 3—3 of Fig. 2.

The numeral 1 marks a pole, including a standard 2, preferably made of concrete, or other plastic material. The standard 2 is shown as of rectangular cross section but it may be of any desired cross section. A metal reinforcement, preferably an H-beam, is mounted in the standard 2 and is arranged symmetrically with respect to the longitudinal axis of the standard. The H-beam extends the full length of the standard 2.

The H-beam comprises a body 3 and flanges 4 and 5, a netting reinforcement 6 being disposed in the standard 2, about the H-beam.

The numeral 7 designates a trough-shaped, metal seat, mounted in the standard 2, transversely of the H-beam. The seat 7 has oppositely-extended wings 8 disposed flush with the outer surface of the standard 2, the seat being welded to the flange 5 of the H-beam, as shown at 9 in Fig. 2.

Metal tubes 10 are located on opposite sides of the body 3 of the H-beam. The tubes pass through the flange 4 and abut against the flange 5. The outer ends of the tubes 10 are flush with the outer surface of the standard 2.

Securing elements pass through the tubes 10, removably, and through the flange 5 of the H-beam. The securing elements may be bolts 11, including heads 12, nuts 14 being threaded on the bolts, the bolts carrying washers 15, if desired. Since the tubes 10 are flush at one end with the outer surface of the standard 2, the tubes receive the thrust of the bolt heads 12, the thrust being carried into the flange 5 of the H-beam, since the tubes abut against that flange. The concrete standard 2 will not receive the strain, when the nuts 14 are tightened.

During storage or shipment, a wooden filler 16, of the same length as the seat 7, is mounted in the seat, and is held in place by the bolts 11 and the nuts 14. The filler block 16 closes the seat 7, and the bolts 11 are prevented from shucking endwise. At the place of use, the filler block 16 is removed, and a cross arm 17 is substituted for it, the cross arm carrying any desired wire-retaining means 18.

It will be understood that the seat 7 and the cross arm 17 may be duplicated to any desired extent and may be located as preferred.

The invention provides a substantial and effective means for holding the cross arm 17 in place. The post 1 may be equipped with any of the usual accessories, such as steps 19.

What is claimed is:

A pole including a standard, a longitudinal reinforcing beam in the standard and comprising first and second oppositely disposed, lateral flanges, and a body connecting the flanges, a transverse, trough-shaped cross arm seat mounted in the standard and opening through one side surface of the standard, the seat abutting against the first flange, means for securing the seat to the first flange, a tube abutting at one end against the first flange and extended thence through a portion of the standard and through the second flange, the opposite end of the tube being disposed substantially flush with the adjacent side surface of the standard, and a securing element removably mounted in the tube and extended within the seat, the securing element comprising a part abutting against said opposite end of the tube.

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