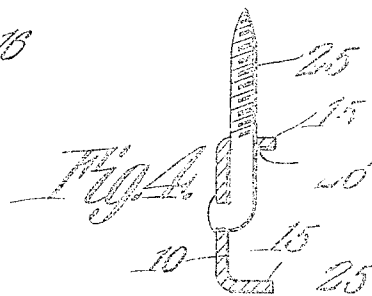
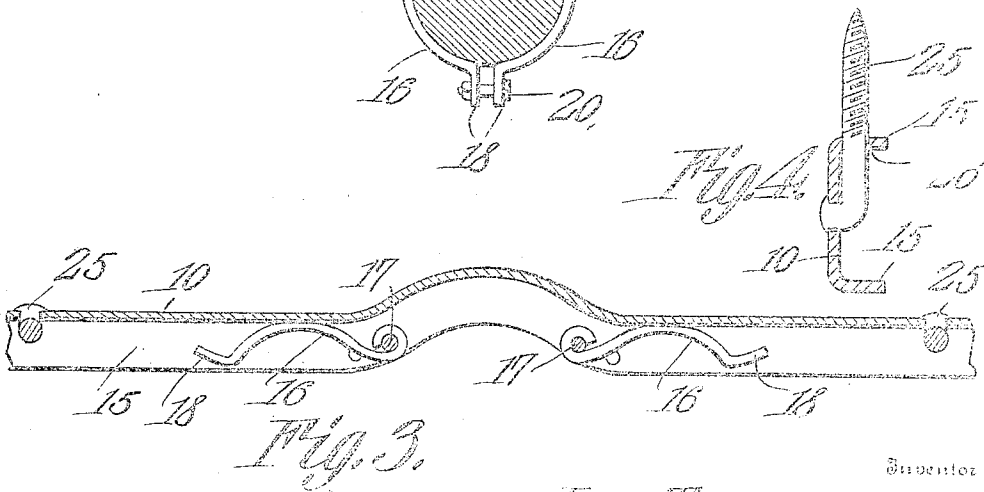
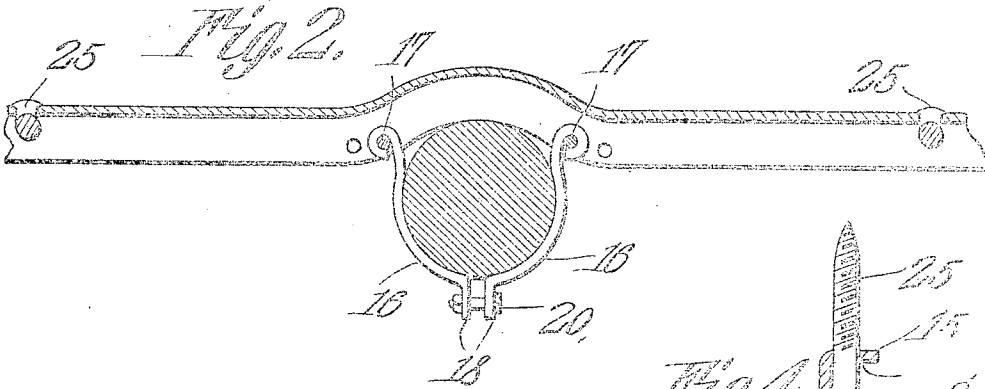
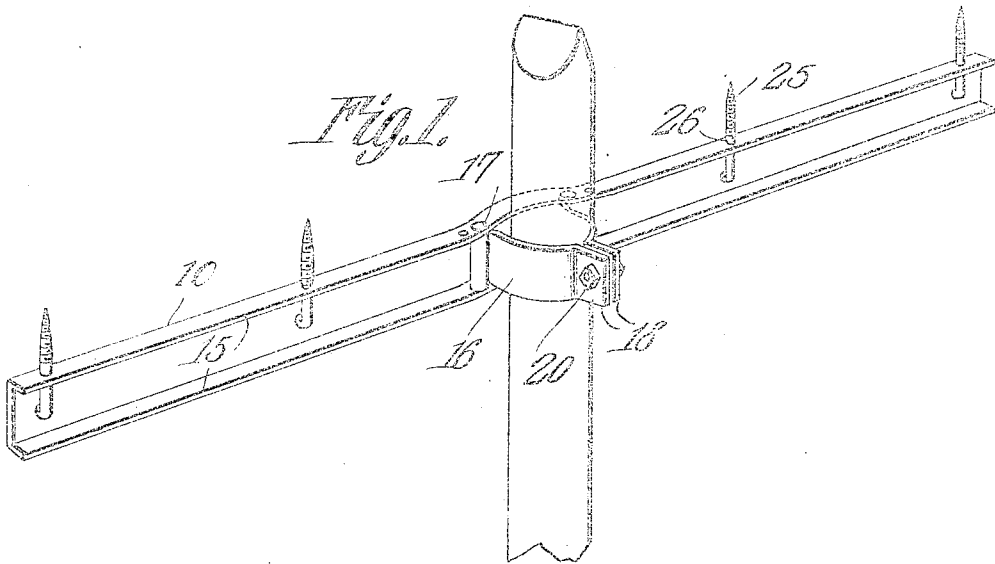


931,661.

Patented Aug. 17, 1909.



Witnesses

E. J. Stewart
John E. Parker

Lee Tyreman.

Cash & Co.
Attorneys

Inventor

UNITED STATES PATENT OFFICE.

LEE TYREMAN, OF STROUDSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO WILLIAM H. LAWELL, OF STROUDSBURG, PENNSYLVANIA.

TELEGRAPH-POLE ARM.

No. 931,361.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed October 18, 1903. Serial No. 457,910.

To all whom it may concern:

Be it known that I, LEE TYREMAN, a citizen of the United States, residing at Stroudsburg, in the county of Monroe and State of Pennsylvania, have invented a new and useful Telegraph-Pole Arm, of which the following is a specification.

This invention relates to cross arms employed on telegraph poles for the support of the insulators and has for its principal object to provide a novel form of cross arm which may be readily and cheaply made, and which may be attached to the telegraph pole at any desired point without the necessity of employing securing nails or screws.

A further object of the invention is to provide a cross bar having pole engaging members pivotally connected thereto and so arranged that they may be readily swung around the pole when the latter is to be secured in position.

A still further object of the invention is to provide a cross arm in the form of a channel bar and to employ clamping members that are pivoted within the channel or groove of the arm in order not to take up room during transportation or in storage.

With these and other objects in view, as will more fully hereinafter appear, the invention consists in certain novel details of construction and arrangement of parts, more fully hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that various changes in the form, proportion, size and minor details of construction may be made without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings:—Figure 1 is a perspective view of a cross arm constructed in accordance with the invention showing the same as applied to a telegraph pole. Fig. 2 is a sectional plan view of the central portion of the arm drawn to an enlarged scale. Fig. 3 is a similar view showing the clamping members folded down within the channel of the arm. Fig. 4 is a transverse sectional view showing one of the insulator supporting pins.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

The cross arm forming the subject of the

present invention is made of metal and is in the form of a U-shaped bar 10, the two parallel webs 15 of the bar being arranged to engage against one side of the pole and by biting into the latter to serve to more securely hold the cross arm in place. The central portion of the cross arm is slightly curved as shown more clearly in Figs. 2 and 3 so as to produce a slightly concave pocket that will receive one side of the pole, but in some cases this central pocket may be omitted.

Pivoted within the channel or groove of the cross arm are two clamping arms 16 that are mounted on pins 17 extending through openings formed in the two parallel webs, and these clamping members when separated may be folded down flat, or practically flat, within the channel or groove of the bar so as not to project beyond the outer edges of the side webs, thus economizing space during transportation and storage. The two clamping members are provided with end arms 18 that are brought into approximately parallel relation and these arms are provided with openings for the passage of a clamping bolt 20 which is tightened for the purpose of drawing the clamping members around the telegraph pole.

In order to provide for adjustment to accommodate poles of different diameters, the webs of the channel bar are provided with a number of sets of openings for the reception of the pivot pins 17 and these may be readily slipped from place and adjusted as required in order to increase or decrease the diameter of the clamp.

The insulator pins 25 are provided as usual with threaded upper ends and these pins are preferably passed through openings 26 formed in the upper rib and secured at their ends to the vertical inner face of the main web of the arm.

What is claimed is:—

1. A cross arm for telegraph poles, formed of a channel bar, and coaxing pole clamping members carried by the bar and movable to inoperative position between the parallel webs of the channel bar thereby to conceal said clamping members.

2. A telegraph pole cross arm comprising a channel bar, the central portion of which is slightly concave to form a pole-receiving pocket, and pole clamping members carried

by said bar and arranged to swing to concealed position within the parallel webs of the bar when not in use.

3. A telegraph pole cross arm comprising
5 a channel bar having a plurality of openings in its parallel webs, pole clamping members, and pivot pins insertible in said openings and supporting the clamping members, said clamping members being arranged to swing
10 to concealed position within the parallel webs of the bar when not in use.

4. A telegraph pole cross arm comprising a channel bar, and pivotally mounted clamping members carried by said bar and arranged to swing to concealed position within
15 the parallel webs of the bar when not in use.

5. A telegraph pole cross arm comprising a channel bar and a centrally located depression, the parallel webs of said channel
20 bar being provided with a plurality of sets of

openings, pivot pins insertible in said openings, and clamping members carried by said pivot pins, said clamping members being arranged to lie concealed within the webs when not in use.

6. The combination with a channeled cross arm having an opening in its upper horizontal web and provided with an opening in its vertical web, of an insulator pin extending through the opening in the horizontal web and provided with an elbow extending through the opening in the vertical web with its terminal portion upset.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature
35 in the presence of two witnesses.

LEE TYREMAN.

Witnesses:

C. E. DOYLE,

JAS. M. WALKER.