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K. S. COSSEBOOM

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TRANSFORMER HANGER

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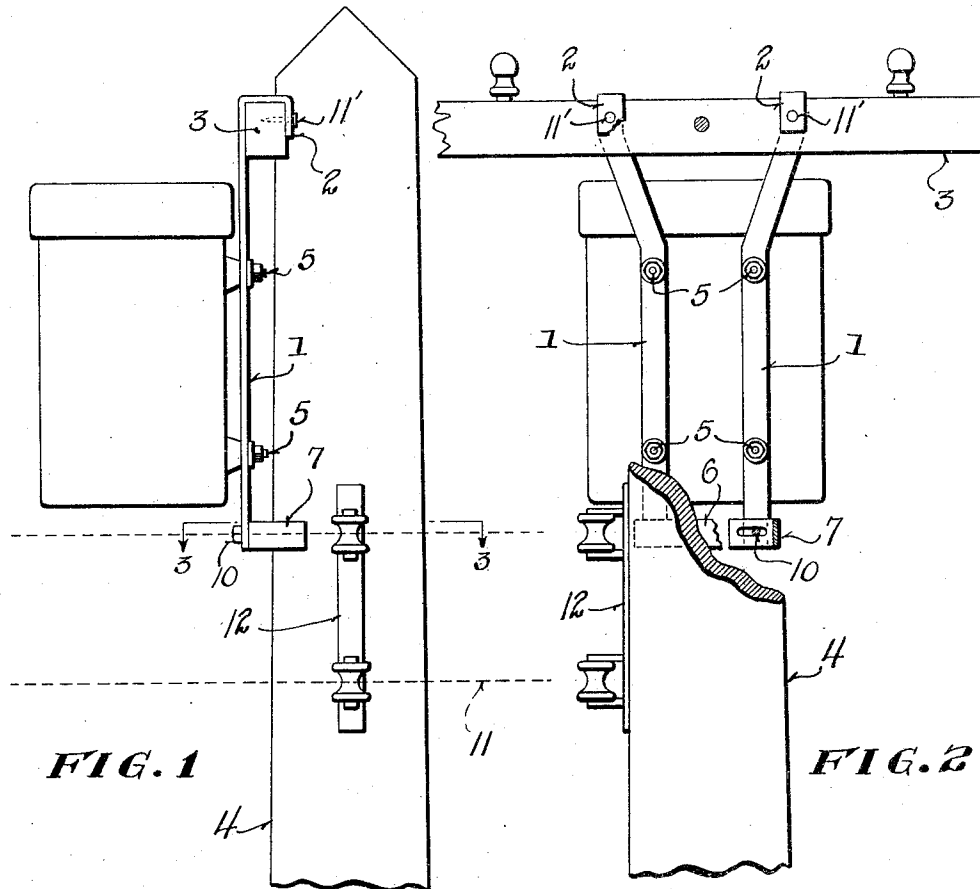
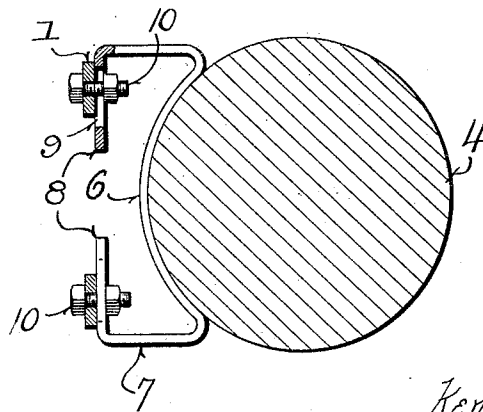


FIG. 1

FIG. 2

FIG. 3



Inventor

Kenneth S. Cousseboom

By

Arthur R. Woolfolk

Attorney

UNITED STATES PATENT OFFICE

KENNETH S. COSSEBOOM, OF BANGOR, MAINE, ASSIGNOR TO LINE MATERIAL COMPANY,
OF SOUTH MILWAUKEE, WISCONSIN

TRANSFORMER HANGER

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This invention relates to a transformer hanger construction, and is particularly directed to a lower support for the transformer hanger.

ly hooked over the cross arm and the lower support allowed to bear against the pole, thus materially reducing the labor and time required.

5 In securing transformers to poles and other supports, it has been the practice heretofore to secure the hanger straps to an upper cross arm which usually carries the supply wires for the primary of the transformer.
10 The lower ends of the hanger straps usually rest against a lower cross arm. A secondary rack for the secondary wires is often attached to the pole below the lower cross arm and spaced downwardly therefrom to properly
15 space the secondary wires. The lower cross arm is, therefore, substantially useless except for the support of the lower ends of the hanger straps, and is subject to decay and must be renewed at definite periods. Also,
20 the lower cross arm is in the way of the secondary wires or low voltage wires supplied by the secondary of the transformer, and necessitates spacing the secondary rack downwardly, thus requiring a considerable
25 space upon the pole. Further, it is necessary to notch out the pole for the reception of the lower cross arm.

Further objects are to provide a lower 55 support for the hanger straps which may be made of strap metal and is, consequently, substantially permanent and may be used over again, which is so shaped that it conforms to the contour of the pole and does 60 not require notching of the pole, which is adjustably attached to the lower ends of the hanger straps to provide increased facility in aligning the hanger straps with the proper portion of the transformer to which they 65 are attached, and which is so constructed that it may be placed higher on the pole and will readily clear the secondary or low voltage wires, thus conserving space on the pole and allowing the secondary rack to be placed 70 higher.

The usual practice has been to mount the lower cross arm, mount the hanger straps, 30 and thereafter hoist up the transformer and secure it to the hanger straps. This last operation has been found to be somewhat difficult, as the lineman had to bolt the transformer to the hanger straps while the transformer was suspended in the air. Also, the 35 lineman had to perform this operation while he was up the pole.

Further objects are to provide a construction that may be cheaply produced, that is reliable and aids in properly maintaining the position of the transformer upon the pole, 75 and which allows the lineman to take less material along for each transformer mounting than has heretofore been necessary.

This invention is designed to overcome the difficulties noted above, and objects of this 40 invention are to provide a novel form of transformer hanger construction and support in which the use of a lower cross arm with consequent notching of the pole is avoided, in which the transformer may be bolted 45 to the hanger straps and lower support while the transformer is on the ground, thus materially cutting down labor and time, and in which the assembled structure of transformer, hanger straps, and lower support may be
50 hoisted as a unit and the hanger straps mere-

An embodiment of the invention is shown in the accompanying drawing, in which:— 80

Figure 1 is a side elevation of the assembled device, showing it in position upon the pole.

Figure 2 is a rear view of the structure shown in Figure 1 with parts broken away. 85

Figure 3 is an enlarged sectional view on the line 3—3 of Figure 1.

Referring to the drawing, it will be seen that the transformer hanger construction comprises a pair of hanger straps 1, which 90 may be of the usual form, and which are provided with upper hooked ends 2 adapted to hook over the upper arm 3 carried by the pole 4. These hanger straps are secured by means of bolts 5 to the transformer in the 95 usual manner.

The lower ends of these hanger straps ordinarily rest against a lower pole arm. In this former construction it was customary to notch out the pole and to secure and brace 100

the arm, the lower ends of the hanger straps bearing against this lower arm.

In practicing this invention, however, a support is provided for the lower ends of these hanger straps. This support may be formed of ordinary strap metal, and is provided with a curved body portion 6, which conforms to the contour of the pole, as shown in Figure 3. The body portion is formed integrally with a pair of forwardly directed portions 7, which terminate in inwardly directed spaced arms 8. These arms 8 are adapted to furnish support for the lower ends of the hanger straps 1, as shown in Figures 1 and 3. The arms 8 are provided with elongated slots 9, which adjustably receive bolts 10 which pass through the lower ends of the hanger straps 1. The hanger straps are, therefore, adjustably attached to the arms of the lower support, and, consequently, the hanger straps may be shifted towards or from each other to permit the proper alignment of the hanger straps with the appropriate portions of the transformer.

It is to be noted that the lower support does not in any way interfere with the positioning of the secondary rack 12, which carries the secondary wires indicated by the dotted lines 11. In fact, the upper secondary wire or low voltage wire may pass directly across the lower support, as may be seen from Figures 1 and 2, without danger of contacting with this lower support. It is apparent, therefore, that the secondary racks may be placed higher up on the pole than has heretofore been possible. The lower support thus economizes space on the pole.

A further important feature of this invention is that the transformer may be bolted to the hanger straps and the hanger straps bolted to the lower support while the transformer is on the ground, thus greatly lessening the labor and time required. Thereafter the completely assembled unit is hoisted into place and the hooked ends 2 of the hanger straps are hooked over the upper arm 3. Preferably these hooked upper ends are apertured so that nails 11' may be driven therethrough into the pole arm 3.

It will be seen that the shaping of the lower support to the pole aids in maintaining the correct positioning of the transformer.

Further, it will be seen that the lower support is for all practical purposes indestructible, and may be used over again if desired. It is extremely cheap to manufacture, as is obvious from an inspection of the drawing, and it will be seen from the above description that it greatly facilitates the mounting of the transformer upon the pole.

It will be seen further that economy of space upon the pole is obtained by this construction. Further than this, less material is required to be carried by the lineman for

any transformer mounting job than has heretofore been necessary.

Although this invention has been described in considerable detail, it is to be understood that such description is intended as illustrative rather than limiting, as the invention may be variously embodied and is to be interpreted as claimed.

I claim:

1. The combination of a pair of hanger straps for a transformer, a lower spacing member having transversely slotted arms, and bolts passing through the slots in said arms for adjustably attaching said hanger straps to said arms, whereby said hanger straps may be laterally shifted to correctly position said straps with reference to a transformer.

2. A transformer hanger construction comprising a pair of vertical arms having hooked upper ends adapted to engage the cross arm of a supporting pole, said vertical arms being apertured for the reception of attaching means for securing the transformer to said vertical arms, a transversely extending spacing member provided with a curved rear portion approximately contoured to fit the pole and having forwardly extending portions terminating in inwardly turned slotted arms contacting with the lower portion of said vertical arms, and fastening means passing through said slotted portions for laterally adjustably securing said vertical arms to said slotted portions.

In testimony whereof, the signature of the inventor is affixed hereto.

KENNETH S. COSSEBOOM. [L. S.]