July 7, 1925. 1,544,863

A. ROSS

REENFORCED CONCRETE POLE BASE

Filed April 28, 1924

Fig. 2

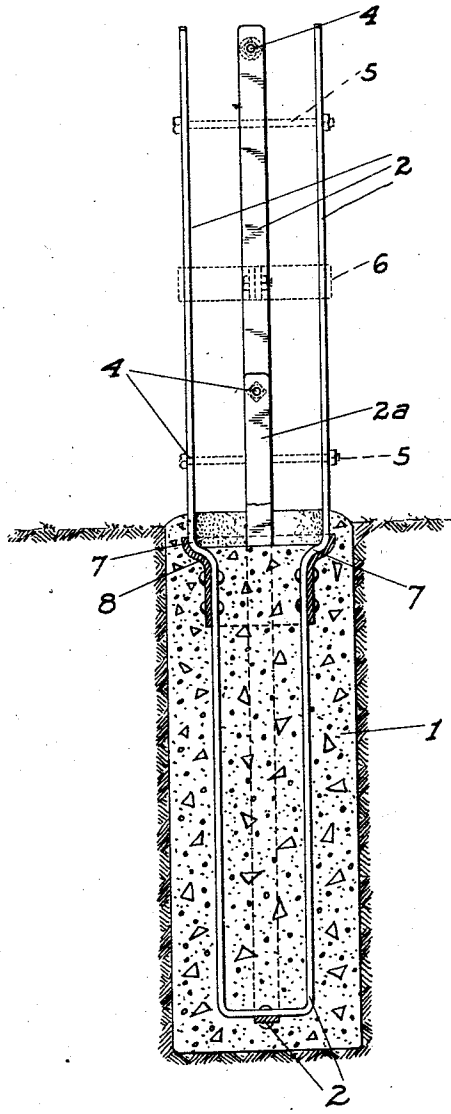


Fig. 1

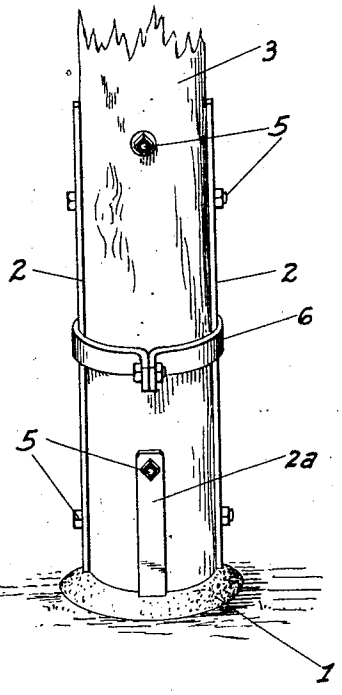
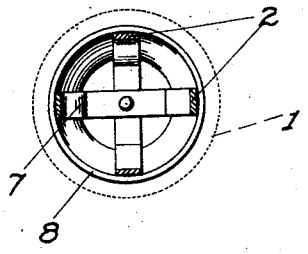


Fig. 3



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UNITED STATES PATENT OFFICE.

ALFRED ROSS, OF VALLEY SPRINGS, CALIFORNIA.

REENFORCED-CONCRETE POLE BASE.

Application filed April 28, 1924. Serial No. 709,418.

To all whom it may concern:

Be it known that I, ALFRED ROSS, a citizen of the United States, residing at Valley Springs, county of Calaveras, State of California, have invented certain new and useful Improvements in Reenforced-Concrete Pole Bases; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in means for supporting wooden electric power poles telegraph poles and the like, my principal object being to provide a structure by means of which the base of a pole will be firmly supported, so that the pole cannot upset, without the necessity of actually sinking the pole itself any distance into the ground, as is now necessary. This structure has two advantages. In the first place it saves wood, since the four or more feet of the pole which are now under ground are not needed for that purpose. In the second place it saves pole-rot, which takes place sooner or later in the embedded portion of the pole.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purpose for which it is designed.

These objects I accomplish by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views:

Fig. 1 is a perspective view of the pole base showing a pole mounted therein.

Fig. 2 is a sectional elevation of the base with the pole removed.

Fig. 3 is a top plan view of the metal parts of the base.

Referring now more particularly to the characters of reference on the drawings the numeral 1 denotes a concrete block or pedestal, preferably of circular cross section and of suitable depth. This block is adapted to be embedded and firmly tamped into the ground. Projecting up a certain distance from this block is a plurality of arms 2, preferably formed of substantial strap iron or the like. These arms are arranged in opposed pairs adapted to fit adjacent the sides of a pole 3. One of these arms is made relatively short, as at 2^a, so that the pole may be tilted into place between the other arms with a relatively slight vertical movement of the lower end of the pole being necessary. The opposite pairs of the arms 2 are provided with alined orifices 4 to receive bolts 5 which are passed through the arms and pole. It will thus be seen that the pole is firmly held and supported in place between the various arms. For heavy work an additional collar 6 is placed about the arms and pole between the bolts.

The lower portions of the arms are embedded in the concrete block 1 and just below the upper end of said block the arms are bent inwardly for a certain distance, as shown at 7, before continuing down toward the bottom of the block. These bent portions thus serve as a seat for the bottom of the pole, the concrete between said arms being poured to be in vertical alinement with said bent portions. Surrounding the arms adjacent said bent portions and firmly secured thereto is a collar 8, which is completely embedded in the block so as to prevent the possibility of the same rusting or corroding. By reason of the arms extending down to a point adjacent the bottom of the block, not only are said arms firmly secured against being pulled out of the block, but the latter is reenforced as well and without additional means. The arms are further prevented from being pulled out from the block by reason of the fact that their lower ends extend transversely from one to the other in the shape of a cross, as clearly shown in Figs. 2 and 3.

From the foregoing description it will be readily seen that I have produced such a device as substantially fulfills the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention, as defined by the appended claims.

Having thus described my invention what I claim as new and useful and desire to secure by Letters Patent is:

1. A support for pole-bases including a block adapted to be sunk into the ground, a plurality of arms projecting upwardly from the block and disposed to lie adjacent the

periphery of the pole in circumferentially spaced relation, the lower end of the arms being embedded in the block and being bent outwardly below the top of the block whereby to form seats for the base of a pole, and a collar surrounding the arms adjacent the bends therein and extending a certain distance below the plane of the bends.

2. A support for pole-bases including a block adapted to be sunk into the ground, and a plurality of arms projecting upwardly from the block and disposed to lie adjacent the periphery of the pole in circumferentially spaced relation, one arm being shorter than the remainder whereby to enable a pole-base to be tilted into position between the arms with a relatively slight vertical raising thereof.

3. A pole support comprising a concrete block adapted to be sunk into the ground, a plurality of arms arranged as opposed pairs projecting upwardly from the block and adapted to lie adjacent the periphery of a pole in circumferentially spaced relation, the lower portions of the arms being embedded in the block, and transverse cross members formed integral with and extending between the lower ends of each pair of arms.

In testimony whereof I affix my signature.

ALFRED ROSS.