

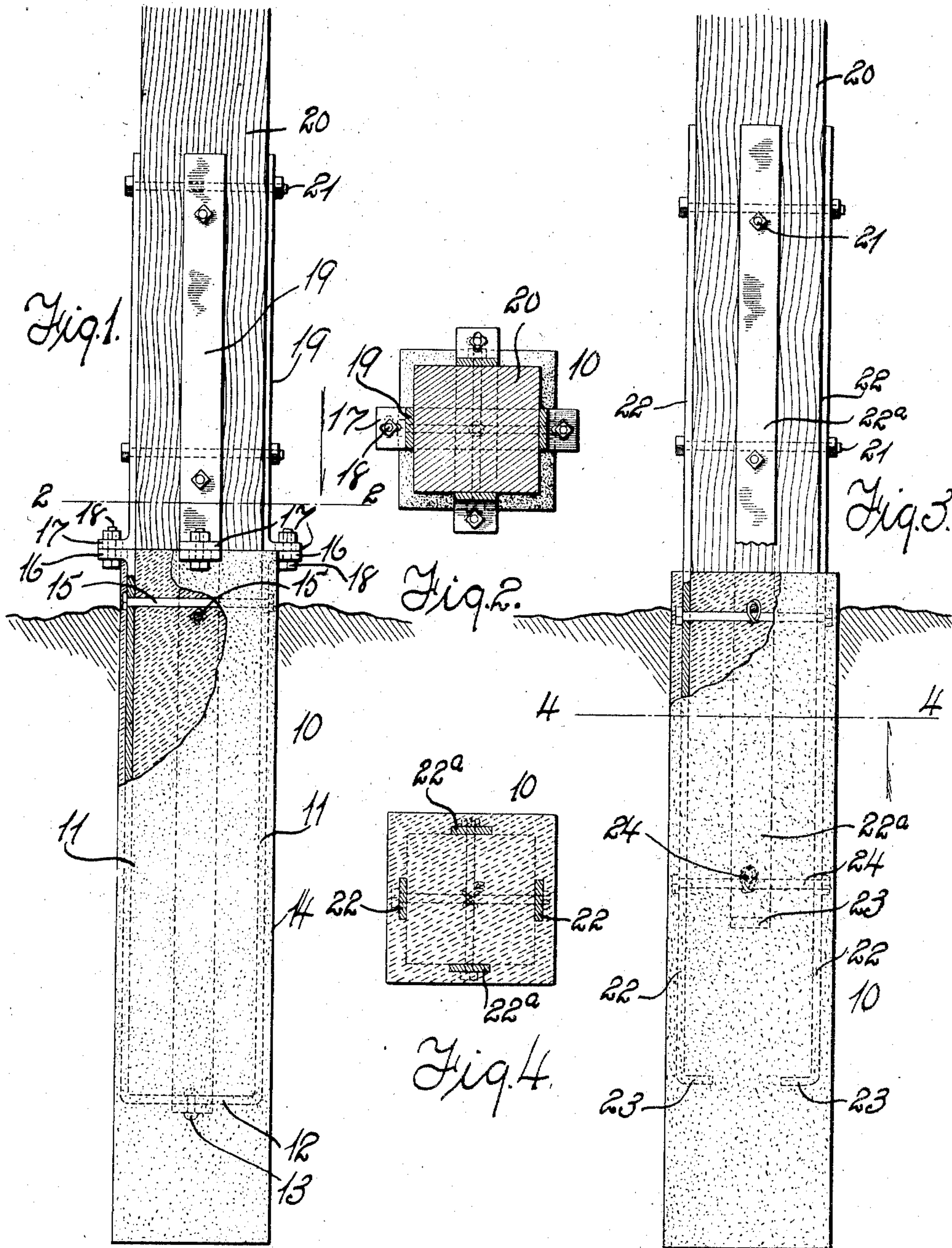
No. 864,854.

M. H. MURRAY.

PATENTED SEPT. 3, 1907.

POLE BASE.

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POLE-BASE.

No. 864,854.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MAURICE HENRY MURRAY, of Bakersfield, Kern county, California, have invented a new and Improved Pole-Base, of which the following is a full, clear, and exact description.

My invention relates to improvements in bases for poles or posts.

Where a telephone, telegraph, flag, or other pole of wood is erected, with the wooden portion in the ground, the underground part rots quickly, and the life of the pole is ordinarily limited to the life of the portion beneath the ground.

The object of my invention is to produce a simple, comparatively cheap re-inforced concrete base which can be easily planted in the ground, and to which a pole or post can be conveniently and securely attached so that the life of the post or pole is rendered extremely long and economy is thus conserved.

Another object of my invention is to produce a device of this character which can be applied to existing lines of telegraph, telephone, or other poles, so that the bases can be planted, the poles cut off at the ground, and the poles then placed in position upon the bases and securely fastened.

With these ends in view, my invention consists of a pole or post base, the construction of which will be hereinafter described and the novel features claimed.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a broken side elevation, partly in vertical section, of a pole base and attached pole showing my improvement. Fig. 2 is a cross section on the line 2-2 of Fig. 1. Fig. 3 is a view similar to Fig. 1, but showing a modification of the invention, and Fig. 4 is a cross section on the line 4-4 of Fig. 3.

The preferred form of structure is shown in Figs. 1 and 2, as this is adapted to be applied to existing lines or to poles already erected. As shown, the base 10 which is of concrete, is reinforced by the metallic straps 11, which are of a general U shape, and cross each other at the bottom as shown at 12, the crossing parts being preferably fastened together as by rivets 13. The upper ends of the straps are connected by cross bolts 15, and it will be observed that the straps and the bolts are wholly embedded in the concrete, and this can be conveniently done in the usual manner by placing the parts in the mold and pouring the concrete around them. The ends of the straps 11 terminate in flanges or lugs 16, which are adapted to abut with corresponding lugs 17 on the straps 19, and the meeting lugs can be secured by bolts 18, or equivalent fastenings. The bolt holes are oblong as shown in Fig. 2 so that the structure can be adjusted to poles of different sizes. The

straps 19 extend upward sufficiently high to securely brace the pole or post 20, which is placed between the straps, and cross bolts 21 extend through the pole and through the straps, and thus make a secure connection between the pole and the base 10. It will of course be understood that the pole and base can be of any approved cross sectional shape, and it will further be understood that the joints of the connecting straps 11 and 19 can be made all around the structure as described, or these joints can occur only on a few of the straps, one or more, and the others left long as in Fig. 3.

In Fig. 3 I have shown a structure similar to Fig. 1, except that the base 10 has its straps 22 and 22^a which are embedded therein at right angles to each other, made long enough to extend well above the base, where they can be secured to the pole or post substantially as already described, by the cross bolts 21. The straps 22 are arranged in pairs, and one pair is considerably longer than the other as the drawing shows, so that the strain will be distributed well through the base, and the ends of the straps are preferably turned in as at 23, and the straps are connected by cross bolts 24, which are embedded in the concrete.

It will be seen that in either case I produce a very simple and substantial concrete base, and that the base is one which can be easily applied either to new lines or to posts or poles which have been already erected. It will be noticed that the base of my invention has the metallic parts securely anchored, and that they are arranged so that the strain is well distributed, and further that the said metallic parts at the points which are to be below ground, are wholly embedded in the concrete or cement so that such parts will not rust.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent:—

1. A device of the kind described, comprising a concrete base having longitudinally reinforcing straps therein, the straps being arranged in opposed pairs, with the pairs of straps at angles to each other and with the bottoms of the pairs connecting and crossing, the ends of the straps being extended from the base for attachment to a super-structure.

2. A device of the kind described, comprising a concrete base having longitudinally arranged straps embedded therein, with their upper ends only exposed, and a second series of straps adapted to connect to the first series and constructed also for attachment to a post or pole.

3. A device of the kind described, comprising a concrete base having longitudinally arranged metallic straps wholly embedded therein except at their extreme upper ends, transverse anchoring means for the straps arranged near the tops of the straps, and a second series of straps having means for attachment to a pole, and having flanges to abut with the flanges of the first series of straps.

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Witnesses:

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