Fig. 1.

Fig. 3.

Fig. 5.

INVENTORS
ALEXANDER LURKIS
BY ANTON F. PECHA

William Wolfer
J. F. Heilman ATTORNEYS
Our invention relates in general to bases, and more specifically to a two piece base suitable for supporting a light, signal or telephone pole.

The present day two piece base with the inside bolt has been found to be difficult to assemble because of the inability to see and align the hidden bolt holes in the inside of the elements. Therefore with knowledge of this difficulty, it is a purpose of this invention to form a two piece base, in which the bolt holes can be seen from outside the elements, and a bolt dropped into the holes from outside and above the elements. It is a further purpose to form both the bolt hole and bolt of such a shape that the bolt becomes locked in the hole of the upper element upon insertion.

Our invention in general is comprised of a transformer base having a closeable entrance therefor, and nut and bolt securing means, a shoe base, the shoe base resting on top of the transformer base and secured thereto by means of square headed bolts and nuts, the bolts extending through square headed holes in the shoe base and openings in flanges on the transformer base, the bolt heads resting flush with the upper surface of the shoe base, whereby the bases can be aligned and the bolts easily inserted.

For further comprehension of the invention and of the objects and advantages thereof, reference will be had to the following description, the accompanying drawings and the appended claims in which various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

FIGURE 1 is a perspective view of our light pole base showing the outside of the transformer base and the shoe base;

FIGURE 2 is a sectional view along the line 2—2 of FIGURE 1;

FIGURE 3 is a detail of the bolt used to secure the shoe base to transformer base;

FIGURE 4 is a sectional view along the line 4—4 of FIGURE 2; and

FIGURE 5 is a sectional view along the line 5—5 of FIGURE 2.

In the drawing and in the specification, in which like numerals indicate similar elements, our light pole base is denoted by the numeral 10. In general, it is comprised of a lower base part 11, called a transformer base because it normally houses a transformer, and an upper base part 12, called a shoe base which rests on and is secured to the transformer base and itself supports a light or other pole 13.

The upper or shoe base 12 is formed with a top element 14 forming an inwardly extending part and downwardly extending side walls 15, which terminate in end faces 16. The top element 14 is provided with a plurality of spaced holes 17, the upper part of which are round 18 and the lower part of which are rectangular 19. The shoe, top element 14, is also provided with a centrally positioned well or hole 20 having side walls 21 and terminating at its lower end in an inwardly extending flange 22. The pole 13 rests in the well, its end seated on the flange 22 and its sides epoxied, glued or otherwise secured to the side walls 21.

The transformer or lower base 11 is formed with side walls 23, from the lower end of which extend ears or lugs 24 and from the upper end ears or lugs 25 forming an inwardly extending part. The transformer base is also provided with a substantially large sized opening 26 in one of its side walls. A removable or openable closure 27 is provided for the opening 26 which can be affixed or secured to the side walls of the transformer base in any suitable manner.

The transformer base is itself secured to the ground or sidewalk, etc., by bolts 28, buried in the ground or sidewalk extending adjacent and upwards of the lugs or ears 24 and by nuts 29.

The upper or shoe base 12 rests on the lower or transformer base 11, with the end of its side wall 16 sitting on the upper end of the side walls 23 of the lower base, and with its holes 17 aligned with holes or openings 30 in the lugs or ears 25.

Bolts 31 extend through holes 17 and openings 30, and are secured at their lower end by nuts 32, thus rigidly clamping the upper and lower base elements together. Each of the heads of bolts 31 is provided with a larger rounded portion 33 and a smaller squared portion 34 corresponding to the parts 18 and 19 of the holes 17 so that the bolt 31 can rest immovable in the hole 17 and flush with the surface of the top element 14. It should be noted here that, although the hole 17 and the bolt 31 have been shown to have corresponding larger circular portions and corresponding smaller square portions there below, both the position, size and shape of the elements forming the bolt and hole can be varied so long as the bolt and hole function together to result in a flush, rigidly held bolt which is inserted in the hole from above the shoe face 14.

In addition, it should be noted that in the finished assemblage, no bolt heads or nuts protrude, resulting in a pleasing appearance and a structure not conducive to vandalism. It should also be noted that the dropping of the bolts 31 from above and tightening the nuts from below permit quick and easy lining up of the upper and lower elements.

Although our base for a light signal or other type of pole has been shown and described only in one form and in the preferred embodiment of our invention, it should be understood that we do not limit ourselves to the precise construction herein disclosed and we reserve the right to all changes and modifications coming within the spirit and scope of the invention as defined in any or all of the appended claims.

Having thus described our invention what we claim as new and desire to secure by United States Letters Patent is:

1. A base supporting a pole, comprised of an upper base element provided with an opening receiving said pole, a lower base element and a threaded securing means suitable for retaining the two base elements in rigid fixed position, said upper and lower base elements each having inwardly extending portions with the portion of the upper base extending above and over that of the lower base, and the upper portion being defined by a hole therethrough, and the lower portion by having an opening therein, and said hole and opening in said lower portion being axially aligned, and said hole having a locking section, and said threaded securing means being a bolt and nut and said bolt having a locking head and a threaded shank, said locking head resting in and held by the locking section of the hole and the shank extending through the lower portion and said nut being screwed thereon and tightened against the underface of the lower portion, whereby the two base elements are held firmly together.

2. A base as defined by claim 1, in which the locking
3. A base as defined in claim 1, in which said hole has a countersunk section at the surface of the upper portion followed therebelow by an angular portion of a smaller cross-sectional area and said locking head of the securing means has a head part suitable for resting completely within the countersunk section and an angular portion of a smaller cross-sectional area suitable for sitting and being held immovable in the angular portion of the hole.

4. A base as defined by claim 1, in which said hole has two portions, the one adjacent the surface being of a larger cross-sectional area and the one therebelow being of a smaller cross-sectional area, and one of said portions having an angular sectional shape and said locking head of the bolt having a portion suitable for resting in the larger hole section flush with the surface of the hole and a smaller portion suitable for resting in the section therebelow and one of the portions of the bolt being of an angular sectional shape and lockingly resting in the angular part of the hole.

5. A base supporting a utility pole, comprised of an upper base element provided with an opening receiving said pole, a lower base element and a threaded securing means suitable for retaining the two base elements in rigid fixed position, said upper and lower base elements each having inwardly extending parts with the parts of the upper base extending above and over that of the lower base, and the upper part being defined by a hole therethrough, and the lower part by having an opening therein, and said hole and opening being axially aligned, and said hole having a cylindrical section adjacent the top of the upper base surface and a locking section therebelow and said cylindrical section being of greater cross sectional area than the locking section and forming a seat therebetween, and said threaded securing means being a bolt and nut and said bolt having at one end a cylindrical portion suitable for resting in the cylindrical section of the hole and at the other end a threaded portion suitable for carrying the nut, and a locking portion adjacent the cylindrical portion and the cross sectional area of the cylindrical portion being greater than the cross sectional area of the locking portion and forming a seating part therebetween and the locking portion being of a size to fit in the locking section of the hole and engage its sides and said bolt resting in the hole with the seating part resting on the seat of the hole, and the upper end of the cylindrical portion flush with the upper surface of the upper base and the locking portion engaging the locking section of the hole and the threaded portion extending through the opening in the lower base part, and said nut being screwed thereon and tightened against the underface of the lower base part whereby the two base elements are held firmly together and cannot be separated except by manipulation of the nut positioned inside the base.

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JOHN E. MURTAGH, Primary Examiner.
RICHARD W. COOKE, Jr., Examiner.