July 22, 1924. 1,502,342

W. C. LUCAS

PEDESTAL FOR FIRE ALARM BOXES

Filed June 26, 1923

Fig. 1

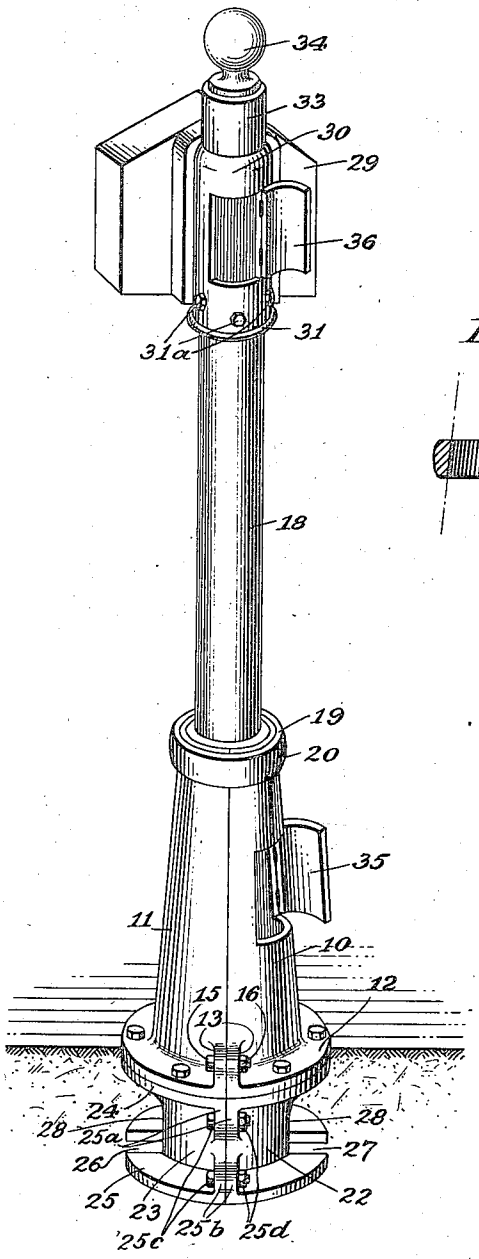


Fig. 3

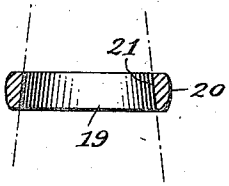
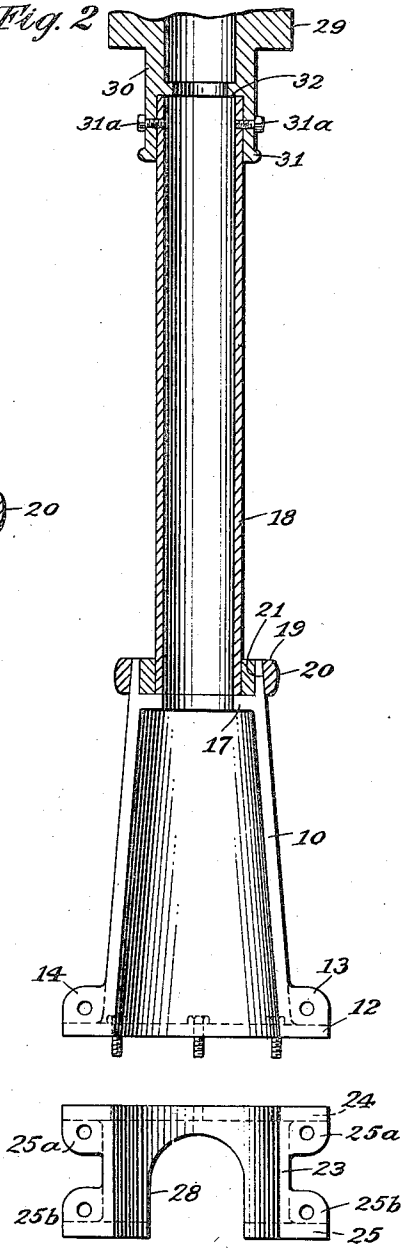


Fig. 2



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UNITED STATES PATENT OFFICE.

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PEDESTAL FOR FIRE-ALARM BOXES.

Application filed June 26, 1923. Serial No. 647,884.

To all whom it may concern:

Be it known that I, WILLIAM C. LUCAS, a citizen of the United States, and a resident of Meriden, county of New Haven, and State of Connecticut, have invented certain new and useful Improvements in Pedestals for Fire-Alarm Boxes, of which the following is a specification.

This invention relates to hollow pedestals and more particularly to a pedestal for supporting fire-alarm boxes, police boxes, electrical junction boxes, or the like.

One object of the invention is to provide a sectional pedestal which may be very quickly and easily assembled and, in case of accident, which may be readily taken down for repairs or replacement.

A further object is to provide a pedestal of the above nature which will be simple in construction, cheap to manufacture, and very efficient, strong and durable in use.

With these and other objects in view, there have been illustrated on the accompanying drawings, one form in which the invention may be conveniently embodied in practice.

Fig. 1 represents a perspective view of a complete pedestal as it appears when in operating position mounted upon its base and supporting a hollow fire-alarm box.

Fig. 2 is a longitudinal sectional view of the pedestal shown detached from its base, and illustrating the construction of the joint between the pedestal and the box-supporting tube.

Fig. 3 is a sectional view of the tapered clamping ring for securely holding together the top portions of the pedestal sections.

It has been found in practice that pedestals for holding fire-alarm boxes, police boxes, and the like, which are usually located beside the curbing of a street, are often injured or broken off from their supports by collisions of automobiles or other vehicles. The former types of such pedestals were generally constructed of single heavy metal castings, and if a pedestal was broken, it was necessary to replace it with an entirely new pedestal, at the expenditure of considerable time and money.

By means of the present invention, the above and other disadvantages have been avoided by constructing the pedestal of quickly detachable sections, so that in case of breakage, repairs may be made promptly and at relatively small expense merely by replacing the particular section or sections of the pedestal which have become broken.

Referring now to the drawings in which like reference numerals denote corresponding parts throughout the several views, the numerals 10 and 11 indicate a pair of complementary semicylindrical side sections adapted to be united to form a tubular tapered pillar or pedestal. Each of said sections 10 and 11 is provided at its base with a horizontal semi-circular base flange 12, both ends of each of said flanges terminating in vertical lugs 13, 14. The lugs 13 and 14 are perforated and are adapted to lie in flat contact with each other, the sections of said pedestal being rigidly held together by bolts 15 and nuts 16. Each of the pedestal sections 10 and 11 is provided at the top with a semi-circular inwardly extending flange 17 forming an annular seat for an elongated box-supporting pipe or tube 18 whose interior surface is adapted to lie flush with the interior edge of said flange 17.

In order to hold the upper portions of said semi-cylindrical pedestal sections tightly together, a clamping ring 19 is provided, said ring having an outer convex surface 20 and a substantially cylindrical inner surface tapered to fit around the upper tapered portion of the pedestal when its sections are assembled, as clearly shown in Fig. 2. As will be evident, the ring 19 may be readily slid upwardly off of the pedestal to permit the sections 10 and 11 thereof to be separated whenever it is necessary to make repairs or replacements. The tube 18 is sealed into the pedestal by pouring melted solder or other suitable fusible metal into the annular recess above the flange 17 between the tube 18 and the top of the pedestal.

The base for the pedestal, as herein illustrated, comprises a two-part tubular structure, sometimes termed in the trade a "ground spider," each of the sections 22 and 23 of said base being provided with horizontal upper and lower flanges 24 and 25. The upper flanges 24 of said base sections are perforated to receive studs which pass downwardly through the base flanges 12 of the pedestal sections 10 and 11. Each of

the sections of the lower flange 25 is provided with a pair of vertical perforated lugs 25^a and 25^b, the perforations of said lugs being adapted to aline with the perforations in the corresponding lugs of the complementary base section, to which they are secured by the bolts 25^c and nuts 25^d. The lower base flanges 25 are provided with horizontal slots 26, 27, communicating with a pair of vertical slots 28 in the vertical portions of the base sections. In use, the base is preferably embedded in concrete, and the slots 26, 27, and 28, serve to assist in preventing rotation of said base in its foundation.

Mounted on the top of the tube 18 is a hollow box 29 for housing the fire-alarm, police-signal, or other mechanism. The box 29 comprises a rear section 30 having a depending collar 31 which fits around the top of the supporting tube 18. The collar 31 is provided with an interior annular flange 32 adapted to seat upon the top of said tube 18. A plurality of studs 31^a are threaded into said collar and are adapted to engage the outer surface of said tube, in order to hold it securely in position. An ornamental top post 33 is provided at the top of the rear section of the box and is surmounted by a ball cap 34 of any suitable construction. A pair of doors 35 and 36 are provided in the pedestal section 10 and the rear section 30 of the box, to provide convenient access to the interior of said pedestal and box respectively.

In operation, when it is desired to assemble the device, the base sections 22 and 23 are first bolted together and embedded in the concrete flush with the level of the sidewalk. The sections 10 and 11 of the pedestal are next bolted together at their bottom lugs 13 and 14 by means of the bolts 15, and the clamping ring 19 is then hammered down in position upon the top portions of the tapered pedestal. The pedestal may then be placed as a unit upon the base with its lower flange 12 resting upon the upper flange 24 of said base. The studs 26 may then be screwed into position to hold the pedestal securely upon said base. The tube 18 may next be seated on the flange 17 and tightly sealed in position by filling up the recess between the base of the tube and the top rim of the pedestal with fusible metal.

One advantage of the present improved form of pedestal lies in its comparatively light weight which makes it possible to construct it at a very low price.

While there has been disclosed in this specification one form in which the invention may be embodied, it is to be understood that this form is shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosure, but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claims.

Having thus fully described the invention, what is claimed as new, and for which it is desired to secure Letters Patent, is:

1. In a pedestal for fire-alarm boxes, police boxes, or the like, a pair of channel members adapted to be bolted together at their bottom portions and adapted to form a closed tube, and an upwardly detachable ring for clamping the top portions of said hollow members together.

2. In a pedestal for fire-alarm boxes, police boxes, or the like, a pair of open channeled members inwardly tapered at their top edges bolted together at their bottom portions and adapted to form a closed tube, and a quickly detachable tapered ring for clamping the top portions of said hollow members together.

3. In a pedestal for fire-alarm boxes, police boxes, or the like, a base adapted to be embedded in the ground or other foundation, a pair of semi-tubular members adapted to form a closed tube, each of said members having a pair of oppositely disposed vertical lugs at their bases, said lugs being secured together, and a quickly detachable clamping ring surrounding the tops of said members.

4. In a pedestal for fire-alarm boxes, police boxes, or the like, a base, a knock-down tube comprising a plurality of vertical sections said sections having outwardly extending horizontal base flanges, adapted to form a support, and a quickly detachable clamping ring surrounding the tops of said sections.

5. In a pedestal of the class described, a pair of channel members tapered inwardly from bottom to top and adapted to form a closed tube, each of said members having a pair of oppositely disposed outwardly extending horizontal base flanges, and a pair of vertical lugs connected to said flanges, means for connecting said lugs together, and a quickly detachable clamping ring surrounding the tops of said members.

6. In a pedestal of the class described, a base, a sectional tubular pillar tapered inwardly from bottom to top, means for securing said pillar to said base, said pillar having an inwardly directed flange near its top to form a seat for a hollow supporting tube, a tapered ring fitting around the top of said tapered pillar for uniting its sections, and a fusible metal seal located in the recess formed between said tube and the top rim of said pillar.

7. In a pedestal of the class described, a two-part tubular pillar for holding a box-supporting tube, means for connecting the lower ends of the sections of said pillar,

and a ring fitting around the top of said pillar for uniting the upper sections thereof.

8. In a pedestal for fire-alarm boxes, police boxes, or the like, a tubular member split vertically into a plurality of sections, means for uniting the lower ends of said sections, and a detachable ring for clamping the upper ends of said sections together.

In testimony whereof, I have affixed my signature to this specification.

WILLIAM C. LUCAS.