C. H. BISSELL & E. G. SMITH.

ELECTRICAL APPLIANCE.

APPLICATION FILED MAY 4, 1917.

1,265,294.

Patented May 7, 1918.

2 SHEETS—SHEET 1.

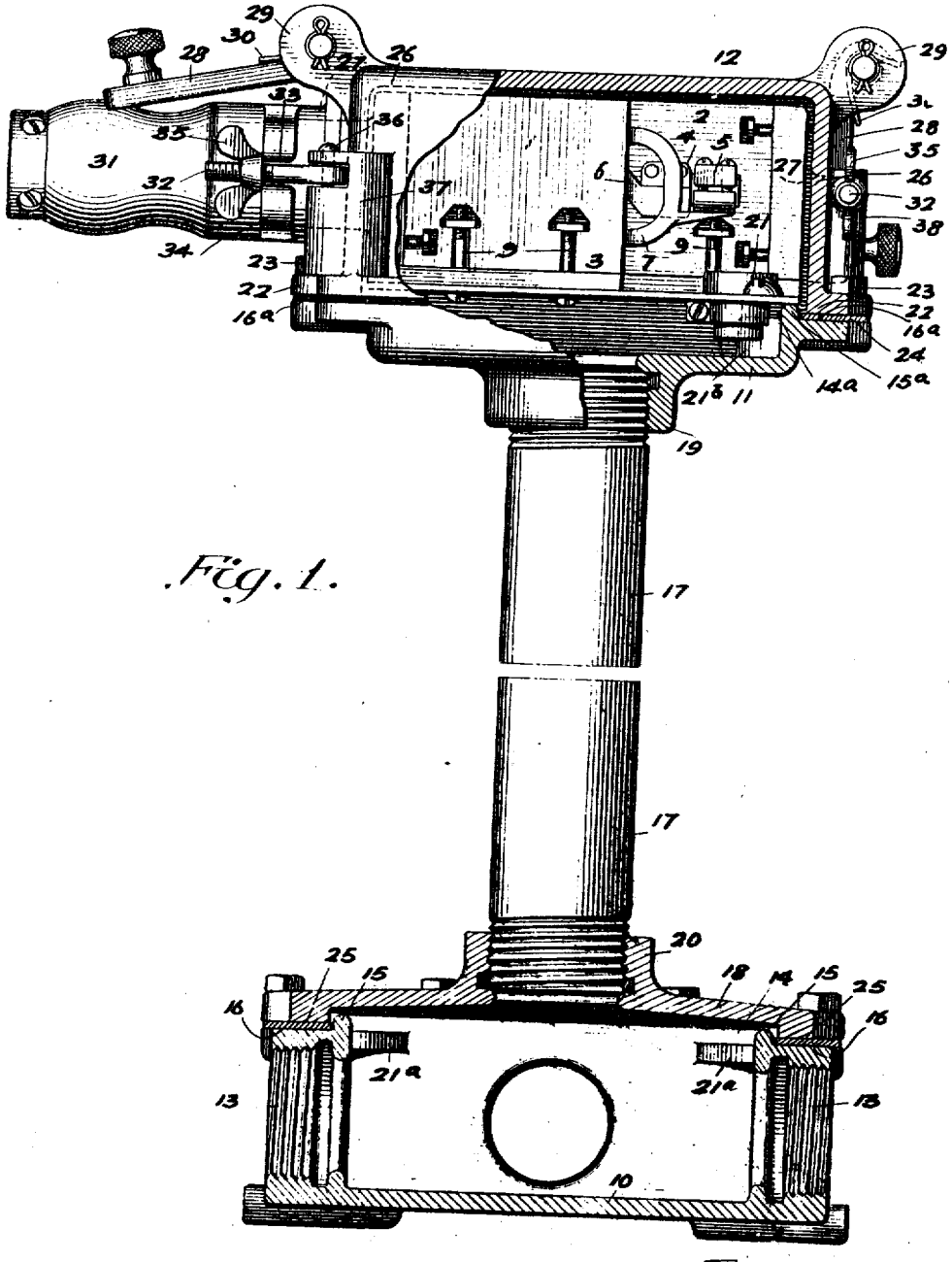


Fig. 1.

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2 SHEETS—SHEET 2.

Fig. 3.

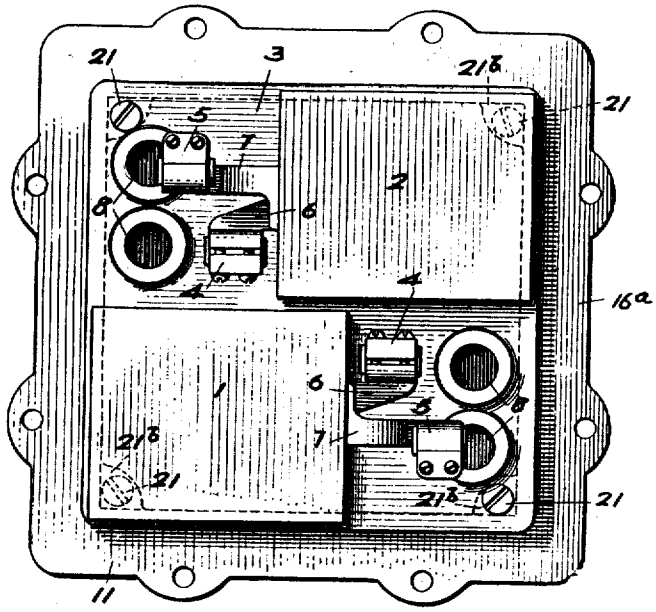
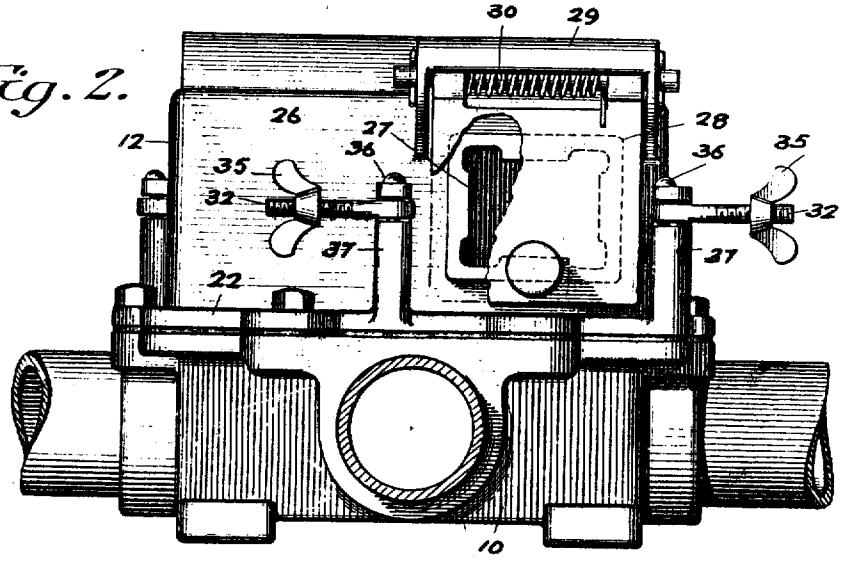


Fig. 2.



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UNITED STATES PATENT OFFICE.

CARL H. BISSELL AND ELDA G. SMITH, OF SYRACUSE, NEW YORK, ASSIGNORS TO CROUSE-HINDS COMPANY, OF SYRACUSE, NEW YORK, A CORPORATION OF NEW YORK.

ELECTRICAL APPLIANCE.

1,265,294. Specification of Letters Patent. Patented May 7, 1918.

Original application filed August 7, 1914, Serial No. 855,546, Patent No. 1,227,241. Divided and this application filed May 4, 1917. Serial No. 166,301.

To all whom it may concern:

Be it known that we, CARL H. BISSELL and ELDA G. SMITH, citizens of the United States, and residents of Syracuse, in the county of Onondaga and State of New York, have invented a certain new and useful Electrical Appliance, of which the following is a specification.

This invention has for its object an electrical appliance, particularly adapted for storage battery charging stations in railroad terminals and coach yards; and it consists in the novel combinations and constructions hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawings, in which like characters designate corresponding parts in all the views.

Figures 1 and 2 are sectional views, partly in elevation, of this appliance, an extension base being shown in Fig. 1, and omitted in Fig. 2.

Fig. 3 is a plan view of the appliance, the upper section of the housing being removed.

This appliance comprises a receptacle, a support therefor, and a housing including an upper section and two lower sections or bases upon which the support for the receptacle and the upper section of the housing are interchangeably mounted, one of the lower sections having a cap piece associated therewith, which is interchangeably mountable with the upper section on the other base section of the housing.

1 and 2 are receptacles or sockets mounted upon a support, as a plate 3, diagonally opposite each other and with their entrances facing laterally in opposite directions, each socket having binding devices 4, 5 at their rear ends for connection to electric wires, the binding devices being mounted on the terminal pieces 6, 7 of the sockets and the binding devices of each socket being located at the side of the other socket.

As here shown, the plate 3 is square and the rear ends of the receptacles or sockets overlap each other as seen in Fig. 3. The plate 3 is also formed with suitable insulated wire openings 8 located in the rear of the receptacles 1, 2 nearly beneath the binding devices, the wire openings communicating with the base or lower section of the housing upon which the plate 3 is mounted.

Each receptacle is connected to the plate 3 in any suitable manner, as by screw bolts 9.

10 is the main base or lower section of the housing, and 11 is a supplemental or extension base or lower section upon which the plate 3 may be interchangeably mounted. 12 is the upper section of the housing which is interchangeably mountable upon either the bases 10 or 11.

The main base 10 is a conduit outlet box having internally threaded nipples 13 for connection with electrical conduits, an opening 14 at its upper side, an upwardly extending flange 15 skirting the opening, and a bearing face 16 around the flange. The extension base or lower section of the housing is carried at the upper end of a pipe or conduit 17, the lower end of which is connected to a cap piece 18 interchangeably mountable with the upper section 12 of the housing on the open side of the base 10. The pipe 17 screws at its opposite ends into internally threaded nipples 19, 20 provided on the base 11 and cap 18.

The extension base 11 is formed with an opening 14^a skirted by a flange 15^a, which flange is surrounded by a bearing face 16^a, all similar to the opening, flange and bearing face 14, 15, 16 of the main base 10. The plate or support 3 may be secured to either of the bases 10, 11 by screws 21 extending through openings in the plate 3 and threading into lugs 21^a or 21^b in the base 10 or 11, the plate 3 resting upon the edge of the flange 15 or 15^a.

The upper section of the housing which is interchangeably mountable upon either of the bases 10, 11, is formed with a flange 22 complemental to the bearing face 16 or 16^a and is attachable to either of said bases by screws 23 extending through threaded openings in the flange and in the bearing face 16, a gasket 24 being usually interposed between the flange and the bearing face. The cap piece 18 is also formed with a bearing face 25 complemental to the bearing face 16.

The section 12 of the housing is formed with a wall 26 which skirts the sides of the receptacles 1, 2 and which is provided with the flange 22 at its lower margin, this wall 26 having openings 27 alined with the entrances of the receptacles or sockets 1, 2.

28 are spring pressed hinged covers for

the openings 27, said covers being hinged to leaves 29 projecting upwardly from the wall 26 and top of the section 12, the hinge leaves 29 being shaped to house the springs 30 surrounding the hinge pins.

31 is a plug movable into either one of the sockets 1, 2, and 32 are eyebolts hinged to the section 12 and movable into open-ended slots or notches 33 provided in lugs 34 on opposite sides of each plug 31; and 35 are wing nuts screwing on the eyebolts against the lugs 34 for holding the plug 31 from withdrawal. The eyebolts are mounted on pins 36 which are supported by lugs 37, 38 projecting from the wall 26 of the housing section 12.

In use, the base section 10 may be mounted upon the surface of the ground, and in such case the supporting plate 3 for the receptacles 1, 2 and the upper section 12 of the housing are mounted directly upon the base 12, as seen in Fig. 2. But in case of underground wiring, the base 10 is located below the surface of the ground, the cap piece 18 mounted thereon and the supporting plate 3 for the sockets 1, 2 and the upper section 12 of the casing are mounted upon the extension base 11, carried at the upper end of the pipe 17, the lower end of which is mounted in the cap piece 18. Hence, the housing section 12 and the socket or receptacle supporting plate 3, by means of our invention, can be used interchangeably for surface wiring or for underground wiring.

In use, the appliance is mounted at one side of a car track or between double tracks, as will be understood by those skilled in the art, and a plug 31 is attached to one end of a wire cord, the other end of which is attached to a plug which fits a socket on the car, which socket is connected to the storage battery.

This invention is particularly advantageous in that owing to the arrangement of the receptacles or sockets 1, 2, and other wire connections, a particularly compact appliance is provided, and further in that owing to the fact that the support for the receptacles and the upper section of the housing are interchangeably mountable upon two bases, the appliance is readily adapted for surface or underground wiring.

The arrangement of the sockets 1, 2 and contiguous parts on the base plate and the cover 12 with the doors thereon for opening and closing the sockets, forms the subject-matter of our application, Sr. No. 855,546, filed August 7, 1914, matured into Patent No. 1,227,241, May 22, 1917, of which this is a division.

What we claim is:

1. An electrical appliance comprising an electrical receptacle, a support therefor, and a housing including an upper section and two lower sections or bases upon which the support and the upper section are interchangeably mountable, and a cap piece connected to one of the lower sections or bases, which cap piece is interchangeably mountable with the upper section on the other base, substantially as and for the purpose set forth.

2. An electrical appliance comprising an electrical receptacle, a support therefor, and a housing including an upper section, and two lower sections or bases, each base having an opening in one side and a bearing face around the opening, and the support being interchangeably mountable on the open side of either base, and the upper section having a circumferential bearing face complemental to the bearing face of either base, substantially as and for the purpose described.

3. An electrical appliance comprising an electrical receptacle, a support therefor, and a housing including an upper section and two lower sections or bases, each base having an opening in one side and a bearing face around the opening, and the support being interchangeably mountable on the open side of either base, and the upper section having a circumferential bearing face complemental to the bearing face of either base, and a cap piece connected to one of the lower sections or bases, the cap piece having a bearing face complemental to the bearing face of the other base, substantially as and for the purpose specified.

4. An electrical appliance comprising an electrical receptacle, a support therefor, and a housing including an upper section, a main base and an extension base, the support and the upper section being interchangeably mountable with the extension base on the main base, and the support and the upper section being mountable on either the extension base or the main base, substantially as and for the purpose set forth.

In testimony whereof, we have hereunto signed our names at Syracuse, in the county of Onondaga, and State of New York, this 27th day of April, 1917.

CARL H. BISSELL.
ELDA G. SMITH.