No. 835,268. PATENTED NOV. 6, 1906.

C. E. WHITE.

DISTRIBUTING BOARD.

APPLICATION FILED MAR. 24, 1906.

Fig. 1.

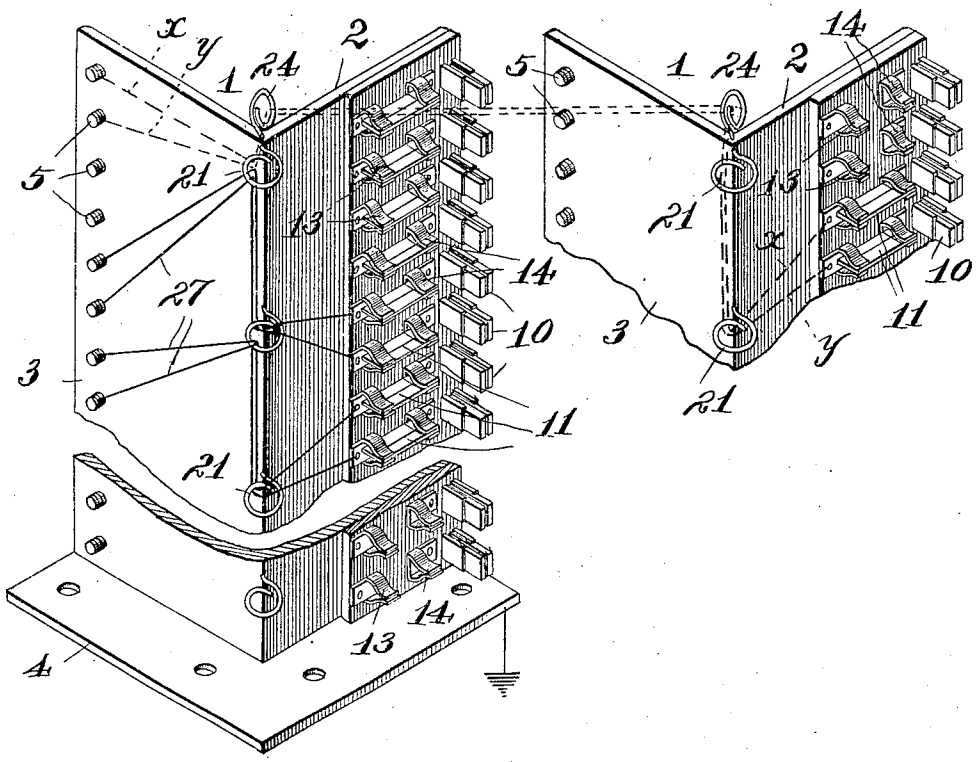
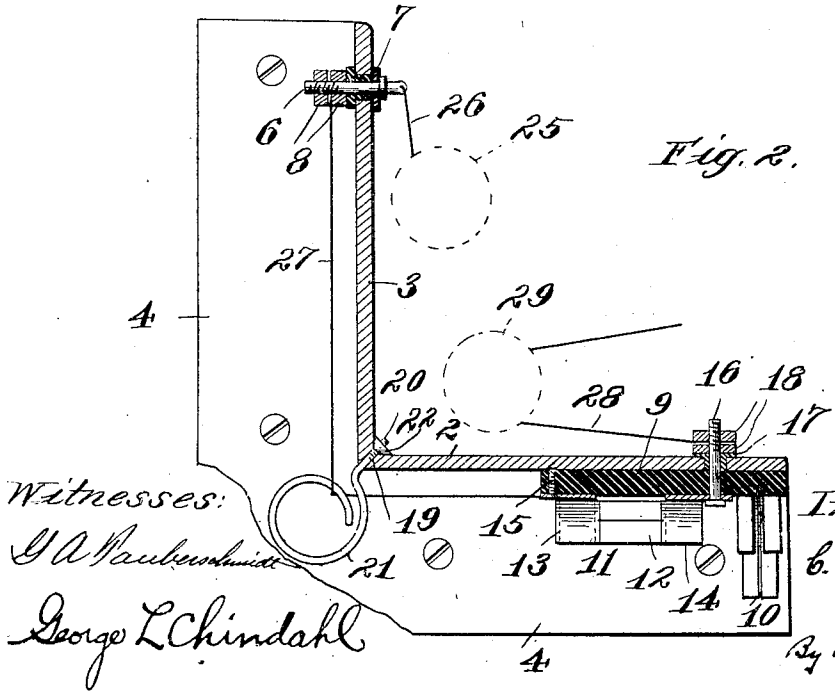


Fig. 2.



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DISTRIBUTING-BOARD.

No. 835,268. Specification of Letters Patent. Patented Nov. 6, 1906.

Application filed March 24, 1906. Serial No. 307,778.

To all whom it may concern:

Be it known that I, CHARLES E. WHITE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Distributing-Boards, of which the following is a specification.

The object of this invention is to provide a simple, strong, and compact distributing-board for telephone and other lines, a board upon which the terminals, fuses, and other parts are readily accessible for inspection and repair, and one upon which the circuits may easily be traced and quickly changed.

In the accompanying drawings, Figure 1 is an isometric perspective view of portions of two distributing-boards embodying the features of my invention, two boards being shown in order to illustrate the manner of transferring lines from one board to another. Fig. 2 is a horizontal section through one of said boards.

In the embodiment herein illustrated of my invention the framework of the distributing-board consists of a piece of angle-iron 1 having the usual flanges 2 and 3 and integral base-flanges 4, by means of which latter the board may be secured to the floor. The flange 2 of the distributing-board supports a series of binding-posts or terminals 5 for incoming lines, each of said terminals comprising a stem 6, extending through said flange and insulated therefrom by means of a two-part insulating-bushing 7. For a portion of its length the stem 6 is screw-threaded to receive binding-nuts 8.

An insulating-base 9 extends longitudinally of the flange 3 of the distributing-board, being secured thereto by the switchboard-terminals, to be hereinafter described. Upon the insulating-base 9 is mounted a series of carbon lightning-arresters 10 and safety-fuses 11 in pairs, the number of pairs corresponding to the number of line-terminals 5. These lightning-arresters and safety-fuses may be of any of the well-known commercial forms. I have herein illustrated mica fusible cut-outs 12, each supported within clips 13 and 14. Screws 15 secure the clips 13 to the insulating-base 9. The clips 14 are attached to said insulating-base by means of screws 16, which also extend through the flange 3 of the distributing-board for attaching said base to said flange. The screws 16 are insulated from said flange by means of insulating-bushings 17. Binding-nuts 18 on the ends of said screws 16 provide means for attaching the switchboard-lines thereto.

At the angle between the two flanges 2 and 3 are formed at intervals openings 19, each intended to receive the shank 20 of a distributing-ring 21. The outer end of the shank 20 is screw-threaded for the reception of a nut 22 for securing the distributing-ring in position upon the board. The rings 21 are not closed, but consist of an open coil into which an electric wire may be easily slipped. At the upper end of the distributing-board is mounted a similar distributing-ring 24, intended to receive lines which it is desired to transfer to another board for distribution.

25 refers to the cable of line-wires 26, which wires are attached in any suitable manner, as by soldering, to the line-terminals 5. The latter are each connected by an insulated wire or "jumper" 27 to the proper fuse 11, said jumper being clamped at one end to its binding-post 5 by means of the nut 8 and soldered to the fuse 11 at its other end. The jumper is guided to its proper fuse by one of the distributing-rings 21. The other end of the fuse is connected with the switchboard by means of the wire 28, 29 referring to a cable of such wires.

In Fig. 1 I have represented in dotted lines the course of lines which it is desired to transfer from one distributing-board to another. These lines are indicated by the letters x and y and are guided in their course by the distributing-rings 24.

By making the board angular in form the two series of terminals are placed in different planes, facilitating the distribution and transfer of lines. It will be noted that all points where cable or jumper wires are to be soldered or otherwise secured to the terminals are in plain sight and easily accessible. The board contains in compact form the various devices for protecting, distributing, and transferring the telephone or other lines passing through it.

While I have described with some particularity the construction of this distributing-board, it is obvious that various changes may be made in the construction and arrangement of the parts of said board without departing from the spirit and scope of my invention, wherefore I desire to have it under-

stood that I do not wish to limit myself to the precise details specified, but intend to claim the invention broadly.

I claim as my invention—

1. A distributing-board for electric wires, the line side and the switchboard side of which extend in the same direction and lie in planes at an angle with each other.

2. A distributing-board for electric wires, the line side and the switchboard side of which extend in the same direction and lie in planes at an angle with each other, said board having wire-guiding means thereon.

3. A distributing-board for electric wires, the line side and the switchboard side of which extend in the same direction and lie in planes at an angle with each other, said board having wire-guiding means thereon at a point between said sides.

4. A distributing-board for electric wires, having a frame formed of a length of angle-iron, and being provided with wire-guiding means at the junction of the webs of said angle-iron.

5. A distributing-board for electric wires having a frame formed of angle-iron, one flange of said angle-iron supporting the line-terminals and the other flange supporting the switchboard-terminals, and wire-guiding means at the angle between said flanges.

6. In a distributing and protector board, in combination, a piece of angle-iron; line-terminals on one of the flanges of said angle-iron; switchboard-terminals on the other flange; and means on said board for mounting protective devices thereon.

7. In a distributing and protector board, in combination, a piece of angle-iron; a series of line-terminals on one of the flanges of said angle-iron; a series of switchboard-terminals on the other flange; wire-guiding means between said series; and means on one of said flanges for mounting protective devices thereon.

8. In a distributing and protector board, in combination, a piece of angle-iron; a series of line-terminals on the outer face of one of the flanges of said angle-iron; a series of switchboard-terminals on the outer face of the other flange, said line and switchboard terminals providing wire-attaching means on the inner faces of said flanges; a wire-guiding ring located on the outer side of the junction between said flanges; and means on the outer face of one of said flanges for mounting protective devices thereon.

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