Nov. 14, 1944. H. HARTMANN 2,362,481

ELECTRICAL EXTENSION

Filed Feb. 6, 1943

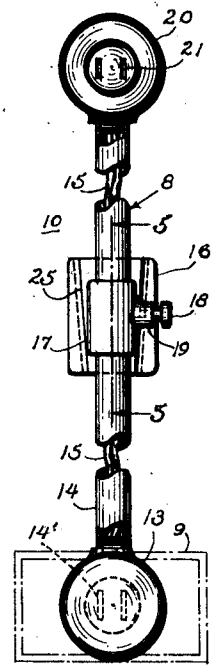



Fig. 2

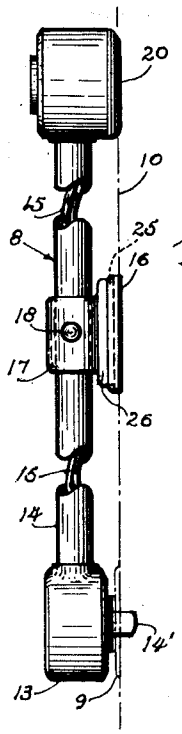



Fig. 3

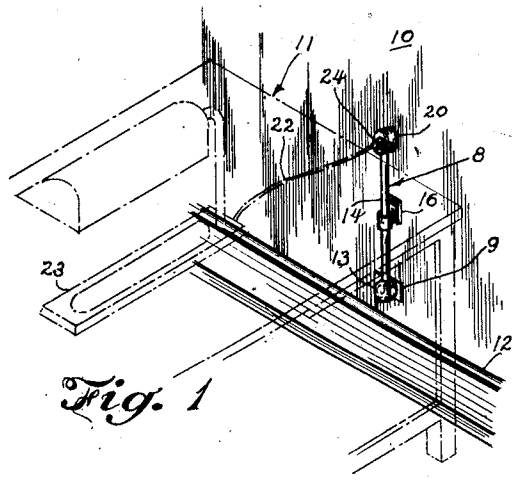



Fig. 1

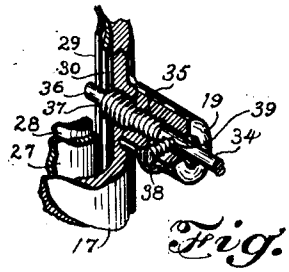



Fig. 7

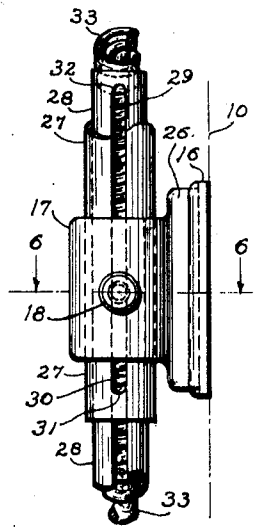



Fig. 4

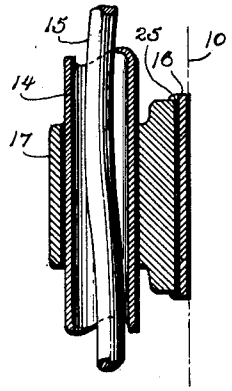



Fig. 5

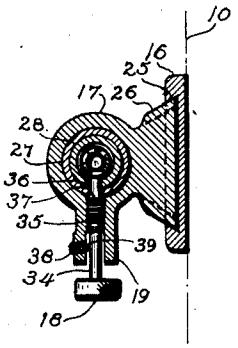



Fig. 6

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## ELECTRICAL EXTENSION

Henry Hartmann, Chicago, Ill.

Application February 6, 1943, Serial No. 474,914

1 Claim. (Cl. 174—69)

This invention relates to extension brackets or extension electrical fixtures of a character to enable one to attach or connect the same to a wall receptacle, which may be in a remote or inaccessible location thus making connection to the electric main or source of supply more accessible.

An important object of my invention is to provide a device of the aforementioned character which is practical and efficient in its operation, neat in appearance and will not require a great deal of fastening equipment to secure the same removably to a wall bracket, yet of such simple construction that it will lend itself to economical production in quantities.

Other objects, features and advantages resident in my invention will become apparent from an examination of the accompanying drawing and the ensuing description, wherein like symbols will denote like parts, and in which;

Fig. 1 is an isometric view showing my invention attached to a receptacle of a wall and showing how it facilitates plugging in an electrical instrument, such as a lamp which may be on a desk; both the lamp and desk being shown in phantom, and also indicating how my invention facilitates connection to what would otherwise be an inaccessible and inconvenient electrical connection.

Fig. 2 is a front elevation of my invention.

Fig. 3 is an end view of the view shown in Figure 2.

Fig. 4 is an enlarged fragmentary view of a slight modification of my invention.

Fig. 5 is an enlarged fragmentary longitudinal cross-sectional view taken on the line 5—5 of Figure 2.

Fig. 6 is a fragmentary transversal cross-sectional view on the line 6—6 of Figure 4.

Fig. 7 is a fragmentary isometric cross-sectional view indicating the clamp means which is used in connection with the modified form indicated in the structure of Figure 4.

In Figure 1, a wall is, generally, designated 10, which is provided with a receptacle, generally, designated 9, to which my invention, generally, designated 8 may be attached. This wall has its usual base-board or molding 12, and as can be seen a desk designated 11 may be set up against the wall in such a position where it would be inconvenient and inaccessible to plug in the lamp cord 22 of the lamp 23 into the receptacle 9, yet contrarily to disconnect the same would offer the same inconvenience and inaccessibility. To obviate this difficulty, I have provided the invention characterized by the enlarged detailed drawings shown.

In Figures 2 and 3, I show one form of my invention which is comprised of a male receptacle 13, having the terminals 14', which fit or connect to the wall socket or receptacle 9 heretofore mentioned. The said male plug element 13 is secured to a connecting pipe or tube 14 within which is encased the wiring 15; the tube 14 being ultimately connected to the top female receptacle 20 having the openings 21 adapted to receive terminals of connecting plug 24 similar to the terminals 14'. The fixture 8 is connected to the inaccessible receptacle and to the extension tubing 14 which results in positioning the female receptacle 20 in a more accessible place, and serves the purpose of providing a live circuit for connecting any electrical instrument.

The fixture is, preferably, held against the wall by virtue of a bracket, generally, designated 16, having a tapered angular slide portion 25 into which is fitted the securing bracket 17 which is suitably recessed to receive the pipe 14, and is provided with a boss or pad 19 which is threaded to receive the binding or clamping screw 18. This clamping screw may be knurled so that it can be loosened and tightened with the fingers and thus not necessitate the use of any special tools. The bracket 17 is also provided with the tapered slide structure 26 which fits into the tapered slide-way 25 and thus serves to secure the bracket to the wall bracket 16, it being secured to the wall by screws or any other fastening not shown in the drawing.

In securing my fixture to a wall, the first thing that is done is to secure the prongs 14' or connect the prongs 14' to the receptacle 9. The bracket 17 is, preferably, held at the top so as to permit positioning the rear end or the back of the receptacle 20 flush against the wall, then the bracket 17 is slipped downward, the slide portion 26 caused to engage the slide-way 25 until the taper locks the same in position whence the clamping screw 17 is further brought to bear on the pipe 14 so as to secure the entire unit firmly and lock it firmly in place.

The modified form indicated in Figures 4, 6 and 7 comprises a bracket which has an extension 19 which is somewhat longer than the one indicated for the form in Figures 2, 3 and 5. The clamping screw 18 in this case has a reduced shank portion 34, an enlarged threaded portion 35, an abutting end of the threaded portion designated 37, and a reduced shank portion 36 to act as a pilot for the elongated recesses 30 and 29. The said re-

cesses being closed at opposed ends, namely at 32 and at 31. The wire 33 is coiled in order to allow for extension and collapsing of the said telescopic means 27 and 28.

The tubing 14 in this instance is replaced by the telescopic tubing 27 and 28, the bracket being provided to clamp the telescopic tubing in place by virtue of the clamping screw 18, the shoulder 37 pressing or abutting against the slotted openings of the tubes 27 and 28 impinging them against the opposite section of the bracket 17 thus causing them to be locked in place. The tubes may be lengthened to maximum dimension and the pilot portion 36 of the screw 18 will prevent the telescopic tubing from coming apart. The pilot portion is not disengaged from the slotted portion 29 and 30 for the reason that a set screw 38 having a reduced shank 39 is positioned so as to limit the outward travel of the screw 18, thus merely permitting it to travel far enough to release the pressure of the shoulder 37 against locking the tubings in place. When the tubings are adjusted to the proper height, this locking screw is tightened.

The attachment of the fixture with the telescopic arrangement to a wall may be made in the same fashion as the fixture represented in Figures 2 and 3; that being done by engaging the terminals 14' and connecting to the receptacle 9, maintaining the slide 17 in an upward position and then engaging it in the bracket 16 causing the tapered slide 26 to engage firmly the guideway 25. When that is thus secured, the upper receptacle 20 may be lifted or lowered to the most suitable position within its adjustable range of movement, and the clamping screw 18 brought to lock the two tubings in place as heretofore elucidated.

In removing the bracket and positioning it at another point, it is necessary to, merely, loosen the screw 18, removing the slide 26 from engagement within the guideway 25 and then disconnect the plug 13 from the receptacle 9 in the wall and move the same to other suitable receptacles provided therefor.

The brackets 16 are permanently fastened to the walls over such inaccessible outlets indicated by the numeral 9, so that one fixture may be used in several places since it may be readily attached and readily disconnected as heretofore expounded and described.

Altho, I have herein shown a preferred embodiment and disclosed and revealed preferred embodiments of my invention, and inasmuch as they are susceptible of many alterations, modifications, and improvements, I reserve the right to all such modifications, alterations, and improvements which come within the spirit and scope of the accompanying drawing and as well come within the purview of the foregoing description; my invention to be limited only by the subjoined claim.

Having thus described and revealed my invention what I claim as new and desire to secure by Letters Patent is:

In an article of the character described, telescopic conduit means comprising, two telescopic members slidably secured to clamping means, the said telescopic members provided with longitudinally coincident slotted portions closed on opposed ends with respect to their respective assemblage, said clamping means comprising, a clamp bracket member securable to a wall, clamp screw means secured to the said clamp bracket member having pilot means operable within the said coincident slotted portions, check screw means secured to the said clamp bracket member adapted to limit the movement of the said clamp screw means, a male plug secured to one end of the said telescopic conduit means, a female receptacle secured to the other end of said telescopic conduit means, the said male plug and the said female receptacle being in oppositely disposed relationship, and electrical connecting means of sufficient length confined within the said telescopic conduit means connecting the said male plug to the said female receptacle.

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