No. 855,155 PATENTED MAY 28, 1907

M. D. BARON.

ADJUSTABLE OUTLET BOX.

APPLICATION FILED FEB. 24, 1906.

Fig. 1,

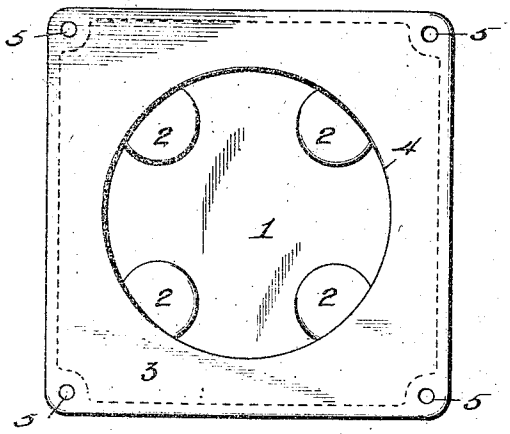


Fig. 2,

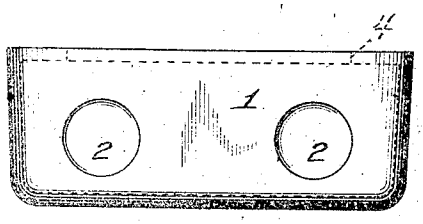
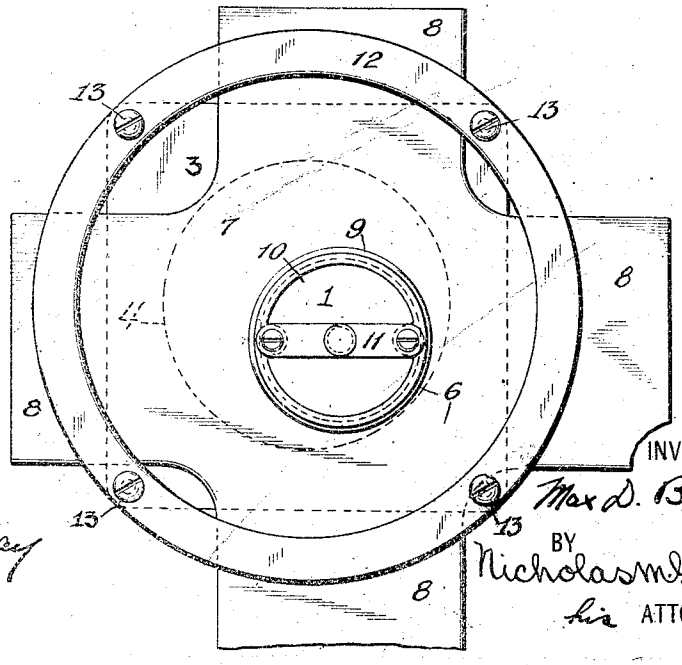


Fig. 3,



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ADJUSTABLE OUTLET-BOX.

No. 855,155. Specification of Letters Patent. Patented May 28, 1907.

Application filed February 24, 1906. Serial No. 302,680.

To all whom it may concern:

Be it known that I, MAX D. BARON, a citizen of the United States, and a resident of the borough of Manhattan, in the county and State of New York, have invented certain new and useful Improvements in Adjustable Outlet-Boxes, of which the following is a specification.

This invention relates to outlet boxes for use in house wiring. In this type of box it is essential that a complete fire proof inclosure be provided for the electric connections of line wires inclosed in conduits within the walls of the building and the terminals of some electric instrument outside of the box, while at the same time providing a properly located outlet opening from the box to the said electric instrument and a support for the same. In modern practice these boxes are installed during the construction of the building and necessarily before the finish or decorations can be accurately determined.

In many types of boxes the outlet opening or receptacle socket of the box is fixed relatively to the body portion or at best is capable of but slight adjustment relatively thereto. Thus, as a result, when the installation is complete and the walls of the building are subsequently finished the exposed outlet opening or receptacle socket is frequently offset a considerable amount from its proper position relatively to the finish of the walls and consequently the electric instrument when attached is offset an unsightly distance. A readjustment with this type of box would involve great inconvenience and expense. The slight degree of adjustability sometimes provided in boxes is quite inadequate in most instances as the offset of a box is frequently as much as an inch in both vertical and horizontal directions. The box also may be several degrees askew.

The advantage of a box with an adjustable outlet opening or socket has long been recognized and many more or less unsuccessful attempts have been made to provide such a box. Their chief defects have been a prolixity of complex and inexpensive parts which at best furnished inadequate adjustment.

An object of the present invention is to provide an inexpensive box which shall have an outlet opening or receptacle socket possessing a wide range of lateral and rotary adjustability and which shall possess a closed interior for all adjustments of the receptacle opening.

A preferred embodiment of this invention is illustrated in the drawings forming part of this specification and in which like numerals designate corresponding parts and in which:—

Figure 1 is a plan view of the body portion of the box; Fig. 2 is a front elevation of the body portion; Fig. 3 is a plan of the assembled box showing the body portion in dotted lines;.

Referring now more particularly to the drawings,—1 designates the body portion of the box of any approved construction, provided with knock-out portions 2 to provide for the entrance of conduits. The outer face 3 of the box presents a somewhat restricted circular opening 4 giving access to the interior of the box. The corners of the box are tapped to form screw receiving holes 5.

The adjustable cover portion 6 of the box comprises a cross shaped plate 7 with projecting parts 8 and a receptacle or fixture socket 9 providing an opening 10.

11 illustrates a fixture support attached to the socket 9.

The opening 10 is smaller than the opening 4 and may be adjusted in any position within its confines and be fixed in position to give access therethrough to the interior of the body portion 1. To accomplish this, the cover portion 6 is located upon the body portion 1 with the plate 7 in contact therewith so that the portions 8 project laterally between the corners of the body portion. A clamping member 12, illustrated as a ring, although it may be of any suitable form, clamps the cover portion 6 to the body portion by means of screws 13 entering the holes 5. This clamping member 12 serves also to retain the cover portion 6 attached to the body portion 1 even though the same is not tightly clamped thereto, thus retaining the various parts in assembled relation.

As may be seen in the drawings the screws 13 permit a considerable play of the projecting portions 8 of the plate 7. This play provides for a lateral adjustment of the socket 9 in all directions within the confines of the opening 4 as well as for a limited rotary adjustment.

The contour of the plate 7 should be deter-

mined by the relative size of the openings 4 and 10 and should be such as to employ a minimum amount of material and always cover the opening 4 no matter what the adjustment of the cover and its socket 9 may be. That is the cover 6 must always be in closing position for all adjustments. A preferred contour of the plate 7 is illustrated in Fig. 3.

The box may be made by any approved process, such as casting or stamping, and may be of any suitable material, such ar iron.

Although the embodiment of the invention, as illustrated and described, is preferred, the invention is capable of much modification in detail. It is not essential that the openings 4 and 10 be circular or that the body portion 1 be square as illustrated, as any convenient shape may be employed. Furthermore, it is not essential that the face 3 of its body portion 1 be integral therewith.

Many other modifications are within the scope of my invention as, for example, the proportioning of the openings 4 and 10, and the various parts of the box might be such as to allow the opening 10 to overlap the sides of the opening 4.

What I claim and desire to secure by Letters Patent, is:—

1. A wall box, comprising a body portion, an adjustable cross shaped cover portion, and a clamping member secured to the corners of said body portion to clamp said cover portion in position.

2. An outlet box, comprising a body portion having a restricted front opening, an adjustable cross shaped cover portion having a centrally located open throat piece, and a clamping member secured to said body portion to clamp said cover portion in position.

3. An outlet box, comprising a body portion, an adjustable cross shaped cover portion, and a clamping member secured to the corners of said body portion to clamp said cover portion in position, said cover portion having a wide range of lateral and rotary adjustability.

4. An outlet box, comprising a body portion having a restricted front opening, and adjustable cross shaped cover portion having a centrally located open throat piece, and a clamping member secured to the corners of said body portion to clamp said cover portion in position, said cover portion having a wide range of lateral and rotary adjustability.

5. An outlet box, comprising a body portion, an adjustable cross shaped cover portion, and a clamping ring secured to the corners of said body portion to clamp said cover portion in position.

6. An outlet box, comprising a body portion having a restricted front opening, an adjustable cross shaped cover portion having a centrally located open throat piece, and a clamping ring secured to the corners of said body portion to clamp said cover portion in position.

7. An outlet box, comprising a body portion, an adjustable cross shaped cover portion, and a clamping ring secured to the corners of said body portion to clamp said cover portion in position, said cover portion having a wide range of lateral and rotary adjustability while in closing position.

8. An outlet box, comprising a body portion having a restricted front opening, and adjustable cross shaped cover portion having a centrally located open throat piece, and a clamping ring secured to the corners of said body portion to clamp said cover portion in position, said cover portion having a wide range of lateral and rotary adjustability while in closing position.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

MAX D. BARON.

Witnesses:
C. A. HELFER,
LEONARD DAY.