W. M. WEBB.

NUT HOLDER.

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1,046,914.

Patented Dec. 10, 1912.

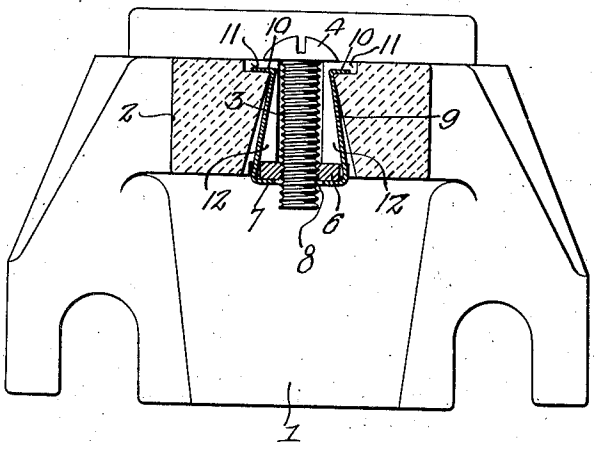

Fig. 1.

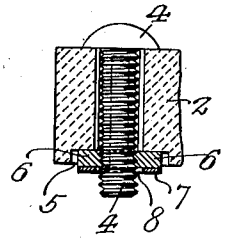

Fig. 2.

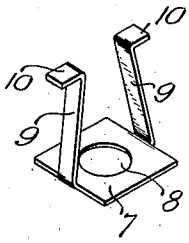

Fig. 3.

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UNITED STATES PATENT OFFICE.

WILMER M. WEBB, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO H. T. PAISTE COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

NUT-HOLDER.

1,046,914. Specification of Letters Patent. Patented Dec. 10, 1912.

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To all whom it may concern:

Be it known that I, WILMER M. WEBB, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Nut-Holders, of which the following is a specification.

One object of my invention is to provide a novel structure for holding a nut in place ready for the reception of a screw, &c., which structure shall be relatively inexpensive to make, as well as convenient to apply and at the same time of such nature as to not require the exertion of such force for its application as might break or injuriously strain the structure to which it is applied.

A further object of the invention is to provide a novel form of device for holding a nut to the body or any other portion of a lamp receptacle or other fixture, which may be easily and quickly applied thereto without endangering or breaking the porcelain of which such fixture is made.

These objects and other advantageous ends I secure as hereinafter set forth, reference being had to the accompanying drawings in which,

Figure 1 is a side elevation, partly in section, of a receptacle or socket showing my invention as applied thereto; Fig. 2 is a fragmentary vertical section further illustrating the construction and use of my invention, and Fig. 3 is a perspective view of the nut holder itself.

While it is obvious that my improved nut holder or supporting device may be used on any desired object, I have found that it may be employed with great advantage for supporting nuts on lamp sockets or receptacles in such a position that they are at all times retained in position ready for the reception of the screws whereby a cover plate may be held to or over such receptacle.

In Fig. 1 of the above drawings, 1 represents a well known form of receptacle for an incandescent lamp, having on each side a laterally projecting lug 2, and each of these lugs is provided with a hole 3 for the reception of a screw 4 whereby the face plate or cover may be removably held to said receptacle. This hole is preferably counter-sunk at its lower end, as indicated at 5, for the reception of a nut 6 into which the screw 4 is threaded; the shape of the hole being such as to prevent the rotation of the nut. In order that the latter shall be retained in this hole so as to be practically attached to and at all times transported with the receptacle, I provide the holding or retaining device shown in Fig. 3, which consists of a plate 7 having a central opening 8, preferably of such diameter as to loosely receive the screw 4. From opposite sides of the plate 7 project holding arms 9 whose extremities are bent so as to extend away from each other in a line substantially at right angles to the general line of the arms, and both plate and its arms are made of spring sheet material so that when the extremities of said arms are bent toward each other they tend to return to their original separated positions.

As shown in Fig. 1, the upper or outer end of the screw receiving hole 3 in each lug is provided with shallow lateral recesses 11 and there are likewise two oppositely placed lateral extensions 12 of each screw hole 3 tapered from the lower end thereof to the inner ends of the recesses 11. When therefore it is desired to assemble the parts of the device, a nut 6 is placed in each of the counter sunk holes or recesses 5 of the receptacle and thereafter one of the holding devices shown in Fig. 3 is inserted to hold the nut in place, its arms 9 being entered in the tapered extensions 12 and then pushed inwardly until their extremities 10, after having been closely approached to each other, finally spring out into the recesses 11, so as to hook to the relatively sharp edges formed between said recesses and the extensions 12. Each nut 6 is then held in its recess 5 by the body of the holder and is prevented from rotating by reason of the square or irregular shape of said recess 5 in which it is mounted, although even if said recesses were circular in form, the arms 9 would serve the same function. The nut is thus prevented from falling out of its recess since the ends 10 of the arms 9 very effectually hold the body plate 7 close against it so that at any time the screw 4 may be placed in the hole 3 and caused to enter the threaded opening of the nut 6, which is thus at all times held in position ready to receive said screw.

It will be noted that the edges between the laterally extending recesses 12 and the recesses 11 constitute shoulders for engagement with the hooked ends 10 of the arms 9, so that where hitherto it has been neces-

sary to bend out the stiff, unresilient ends of a pair of arms formed integral with the nut, my nut holding device can quickly be sprung into place without requiring the exertion of any appreciable amount of force. By this means, I have altogether avoided the loss heretofore invariably occurring by reason of breakage of the porcelain receptacle when the metal ends were bent into the forms required to hold the nut which was integral with them.

I claim:

1. The combination of a supporting structure having a hole therein; a nut holding device mounted adjacent said hole and having arms engaging recesses in the structure; with a nut structure independent of said device and held thereby in line with the hole in the structure.

2. The combination of a supporting structure having a hole therein and recesses adjacent said hole; a nut holding device having bent arms extending into said recesses and provided with a perforated body portion; a nut supported by said body portion in line with the hole in the structure, and a screw mounted in the hole and threaded in the nut while passing loosely through the perforation of the holding device.

3. The combination of a supporting structure having a counter sunk recess at one end and two oppositely placed recesses at its other end; a nut mounted in said counter sunk recess; with a holding device for retaining said nut in place consisting of a plate having arms extending into said opposite recesses.

4. The combination of a supporting structure having a hole therein provided with inwardly tapered recesses and shoulders adjacent the ends of said recesses, a nut mounted with its opening substantially in line with the hole of said structure; and a retaining device for holding the nut in place consisting of a nut engaging plate and two arms extended therefrom passing through the tapered recesses and provided with bent ends engaging the shoulders.

5. The combination of a supporting structure having a hole therein provided with inwardly tapered recesses and shoulders adjacent the ends of said recesses; a nut having its opening substantially in line with the hole of said structure; with a retaining device for holding the nut in place consisting of a nut engaging plate and two arms extended therefrom passing through the tapered recesses and provided with bent ends engaging the shoulders; there being a counter sunk recess of irregular form in the supporting structure adjacent the plate of the holding device, for receiving the nut.

6. As a new article of manufacture a nut holding device consisting of a plate having a body portion and two hooked arms of spring material extending in lines substantially at right angles thereto.

7. As a new article of manufacture, a nut holding device consisting of a plate of relatively thin sheet material having spring arms extending from its opposite sides in lines substantially at right angles to its plane; the extremities of said arms being bent away from each other to form holding elements.

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

WILMER M. WEBB.

Witnesses:

WILLIAM E. BRADLEY,

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