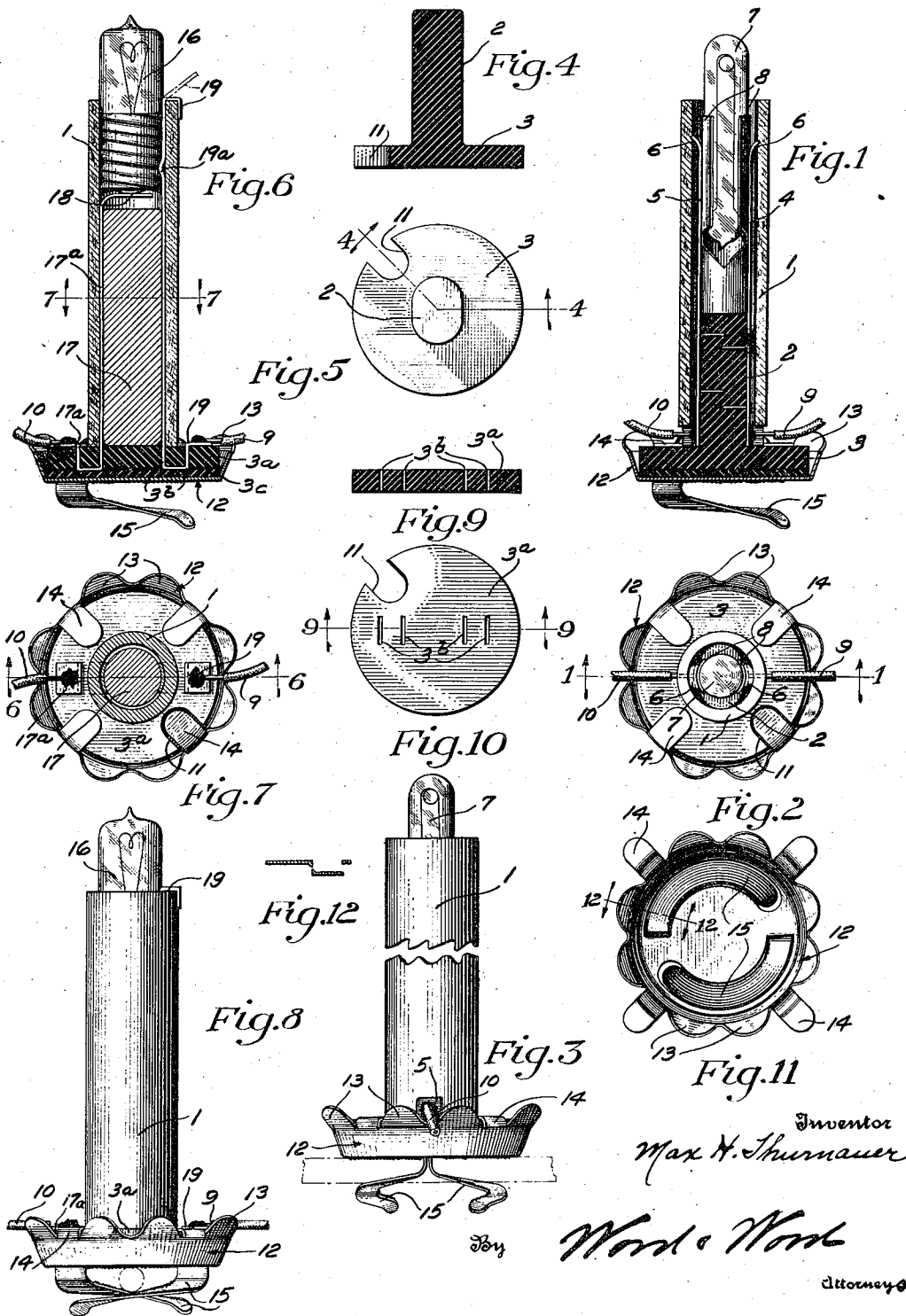


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ELECTRIC LIGHT FIXTURE

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UNITED STATES PATENT OFFICE.

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ELECTRIC-LIGHT FIXTURE.

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To all whom it may concern:

Be it known that I, MAX H. THURNAUER, a citizen of the United States, and residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Electric-Light Fixtures, of which the following specification is a full disclosure.

My invention relates to an ornamental electric light bulb receptacle simulating a candle-stick of miniature size intended to be used for decorative purposes, such as dressing tables, Christmas trees, shop-windows, or the like, and which can be easily secured to the twigs of Christmas trees or the like.

Another object of the invention is to provide a cheap construction, easily handled, light in weight, and which can be conveniently and securely attached in twigs of a tree.

The features of the invention will be more fully set forth in the description of the accompanying drawings, forming a part of this specification, in which:

Figure 1 is a central vertical section through one species of the electric candle.

Figure 2 is a top plan view of Fig. 1.

Figure 3 is an elevation of the structure of Fig. 1.

Figure 4 is a sectional view of the core shown in Fig. 1, on line 4—4, Fig. 5.

Figure 5 is a plan view of Fig. 4.

Figure 6 is a central vertical section of a modified form.

Figure 7 is a plan section on line 7—7, Fig. 6.

Figure 8 is a side elevation of Fig. 6.

Figures 9 and 10 are respectively a section on line 9—9, Fig. 10, and a plan view of the insulating disk for mounting the conductors and for mounting the portion of the base of the candle.

Figure 11 is a top plan view of the supporting base.

Figure 12 is a detail section on line 12—12, Fig. 11, illustrating the serrations upon the upper inner edges of the tangs designed for gripping the support, in conjunction with opposing serrations upon the under side of the tray or base.

The form shown in Fig. 1 is for that species

of toy candle wherein the bulb has a slip-in connection with the candle tube for forming the electric connection.

A paper tube 1 is shown simulating an ordinary candle in color and contour. At the lower end thereof is secured an insert or core 2, of insulating material, having a base flange 3, the core portion 2 being inserted into the bottom end of the candle tube. The core 2 provides a stop or insertion limit for the bulb within the tube. Contacts 4, 5, are attached in diametrical relation to the core 2 and extend upwardly within the hollow tube, their extremities having the outwardly bent formations 6, constituting spring-like clamps for frictionally engaging the bulb 7, and for making respective contact with the exterior of the bulb contact pieces 8, said contacts 4, 5, being connected to the conducting wires 9, 10, just above the base 3. The base portion 3 is circular in plan, and is provided with a marginal notch 11. Upon the bottom of this base 3 is a candle-holder, having the form of a cap-like tray 12, (see Fig. 11), providing upturned scallops or flutes 13, which are purely ornamental. The upper portion of the tray is also formed with spurs 14, bent over the upper surface of the base 3, one of them being interlocked with the notch 11 thereof. From the lower portion of tray 12 are downwardly projecting, semi-circular tangs 15, tapering in vertical plane, and forming conjointly, a screw-like clamp, adapted to readily engage and be secured to a twig by the simple act of rotating the holder, i. e. screwing it into place. The tanks therefore are in plane with the lower side of the tray 12 and spaced therefrom. The free ends of the tangs relatively extend in a corresponding direction and each terminate a slight distance from the rear end of the other to provide a space for initially receiving the support to which the holder is to be secured, whereupon the holder is rotated, the tangs, under a screw-like action, clamping the support between the tangs and the base side of the tray 12.

The tangs are punched from the base portion of the tray and the punching dies are of a construction which will cause a burr to be struck from the inner edges of the tangs

and corresponding edges of the openings in the base of the tray formed by punching out the tangs. These burred edges serve to provide roughened surfaces on edges for gripping or biting the support and thus hold the fixture against accidental release or reverse unfastening motion.

Fig. 6 shows a modification detail adapting the candle to receive the conventional screw bulb 16. In this form a post or wood-block 17 is inserted with the lower portion of the tube and seated upon the insulating base 3^a. The base 3^a is provided with pairs of slots 3^b designed to receive and fasten the ends of the contacts, which ends are passed downwardly through one slot and upwardly through the adjacent slot and laid against the upper face of the base, the wires 9 and 10 being attached thereto. A filler piece 3^c of insulating material is placed between the base 3^a and tray 12. To provide the requisite contacts in this form, one of the wires 17^a projects up one inside wall of the tube and is bent inwardly at the upper end to form the contact 18 and the other wire 19 extends up the opposite wall of the tube and is provided with an inwardly disposed crimp 19^a for engagement with the threads of the bulb, as a bulb retaining means. The upper end of the wire is bent over the upper periphery of the tube to prevent its displacement. The device is easily made and assembled, and is fire-proof and reasonably staunch. It is also very ornamental in appearance and can be very quickly and easily applied, and it will firmly grip the conventional Christmas tree twig and be substantially held in place.

It will be observed from Figs. 3 and 4 that this holder 12 is a cup-like structure, simulating the ornamental candle-holder, and, of course, this may be given any desired contour or ornamental effect.

Having described my invention, I claim:

1. An electric candle for Christmas trees or the like comprising a hollow paper tube simulating a candle-stick and having its upper end adapted to receive an electric bulb, an insulation flange-like base, electric contact wires having provisions for electric connection placed in said base portion and having terminal springs running up the inside walls of the tube adapted for bulb contact, and a candle-holder secured to the under surface of said insulation base and formed with downwardly projecting semi-circular tangs tapering in a vertical plane, adapted for a screw-like engagement with a tree twig or the like.

2. An electric candle for Christmas trees or the like, comprising a paper tube simulating a candle-stick, an insulation base forming an angular flange, a core reinforcing the lower end of the tube and secured upon said base, bulb contacts secured in said

insulated base and extending up the interior walls of the tube for bulb contact, provision for electric conductor wires contacting said tube wires above the base, said base being formed with a marginal notch, and a holder secured upon the under surface of said base upwardly projecting spurs clamping the base one of which enters the marginal opening, said holder being formed on its underside with downwardly projecting semi-circular tangs tapering in a vertical plane, projecting inwardly from peripheral portions, thus presenting open ends for screw-like engagement with and retention to a Christmas tree twig or the like.

3. An electric candle for Christmas trees or the like comprising a paper tube simulating a candle-stick, and an insulation base, electric contacts in the base entering the tube and a bulb detachably seated in the upper end of the tube to make contact, a cup-like candle-holder wherein said base is secured, the said holder having upwardly projecting spurs engaging the insulating base, and having on its bottom surface semi-circular tangs, the extremities of which taper in a vertical plane constituting a clamp presenting open ends adapted for screw-like secureance to a Christmas tree twig or the like.

4. An electric candle for Christmas trees or the like comprising an insulation base having a flange, a tube simulating a candle-stick secured on the base, vertical contact springs secured in the base extending along the interior walls of the tube to form a spring-like contact clamp for receiving and holding the bulb, a cup-like tray within which said base is placed, having upwardly projecting spur members clamped upon the base and having on its lower face semi-circular spurs tapering in a vertical plane and providing open ends for screw-like clamp engagement with a Christmas tree twig or the like.

5. A portable electric light fixture, comprising an electric light bulb receptacle simulating a candle-stick, having a dish base, the base provided with a pair of tangs projecting from its lower side, each of arcuate form and in a plane parallel with the base lower side for engaging a support under a screw-like action between the tangs and base lower side.

6. A portable electric light fixture, comprising an electric light bulb receptacle simulating a candle-stick, having a dish base, the base provided with a pair of tangs projecting from its lower side, each of arcuate form and in a plane parallel with the base lower side for engaging a support under a screw-like action between the tangs and base lower side, the said tangs having burred edges for bitingly engaging the support.

7. A portable electric light fixture, com-

prising an electric light bulb receptacle, having a base, the base provided with a pair of tangs projecting from its lower side, each of arcuate form and in a plane parallel with
5 the base lower side for engaging a support under a screw-like action between the tangs and base lower side.

In witness whereof, I hereunto subscribe my name, as attested by the two subscribing witnesses.

MAX H. THURNAUER.

Witnesses:

L. A. BECK,
R. KISTNER.