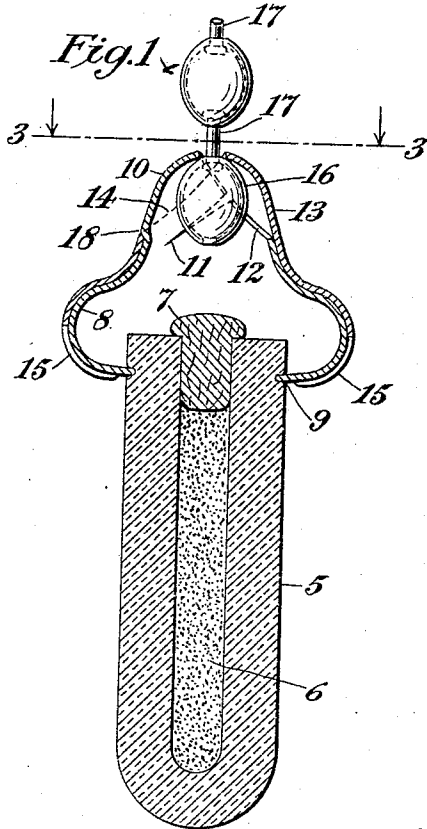
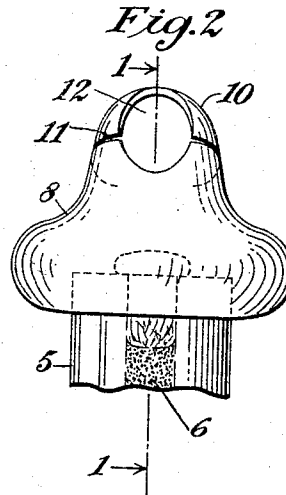
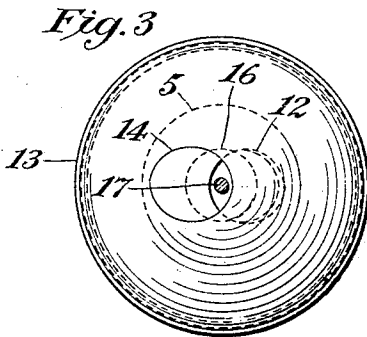
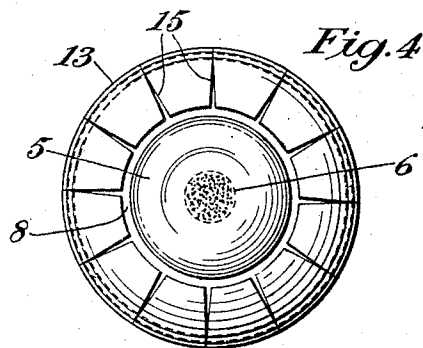


R. W. ERDLE.
CHAIN PENDANT.

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INVENTOR
Reiner W. Erdle
BY *Alfred W. Day*
ATTORNEY

UNITED STATES PATENT OFFICE.

REINER W. ERDLÉ, OF WEEHAWKEN, NEW JERSEY.

CHAIN-PENDANT.

1,304,170.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, REINER W. ERDLÉ, a subject of the Emperor of Germany, who have declared my intention of becoming a citizen of the United States, and now residing in Weehawken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Chain-Pendants, set forth in the following specification and illustrated in the accompanying drawings.

This invention is a device for connection to any small sphere-like article, such as the terminal ball of a ball-chain of the character generally employed to operate electric pull switches for electric lights and the like. It is particularly intended to be employed as a self-luminous pendant for such pull chains, to enable the user to conveniently find them in the dark, and it is this adaptation of the invention which is illustrated in the accompanying drawings. It is an object of the invention to provide a neat, symmetrical, cheap and reliably secure self-luminous pendant which may be conveniently attached to a pull chain by hand and without recourse to mechanical tools.

In the accompanying drawings, which present magnified views of the device:

Figure 1 is a longitudinal mid-sectional view of the device attached to the pull-chain;

Fig. 2 is an elevation of the inner ball-retaining cap, looking at the right side of Fig. 1 with the outer ball-retaining cap removed;

Fig. 3 is a plan view of Fig. 1 showing the chain link in section on the plane 3—3 of that figure; and

Fig. 4 is a bottom plan view looking upward at Fig. 1.

The glass bulb 5 is formed and filled with self-luminous material in any suitable manner, and sealed with a suitable plug 7. Around its upper end is formed a groove at 9, for instance by grinding, and into this groove is tightly spun the lower edge of the dome-shaped inner ball-retaining cap 8. The outer dome-shaped ball-retaining cap 13 conforms generally with the inner cap and turns as a swivel on the inner cap and is secured thereon by bending its lower margin or skirt around the skirt of the inner cap with a clearance between the outer cap and glass bulb sufficient to permit free turning of the outer cap. To permit the skirt

of the outer cap to be thus bent inward without recourse to a spinning operation which might mar its finish, the skirt may be cut by slits such as 15 at equi-angular intervals.

Both the inner and outer caps have laterally disposed apertures or mouths 12 and 14 respectively which extend across the pivotal axis and which freely receive the terminal ball 16 of the pull chain when these mouths are in register, but when the outer cap has been turned halfway around from position of such register its mouth is nearly covered by the overlapping dome of the outer cap while the mouth of the outer cap is likewise nearly closed by the underlying dome of the inner cap, which inner dome may be slit as at 11 to make it sufficiently elastic to spring outward and occupy the mouth of the outer cap, and to do this more effectively the wall of the inner dome may be offset as at 18 along a ridge approximating the outline of the mouth of the outer cap.

In attaching the self-luminous pendant, its outer cap is turned so as to open the ball-receiving mouths of both caps, the terminal ball of the chain is inserted, and the outer cap is then turned halfway around until the spring wall of the inner cap snaps into the mouth of the outer cap to lock the parts in ball-retaining positions with the pin-link 17 of the pull chain entering through the relatively small mouth areas which still remain open, as illustrated in Figs. 1 and 3.

The invention may be practised in different specific constructions within the contemplation of the inventive idea and the scope of the following claims:

1. In combination with a container for self-luminous material, a cap therefor operative to attach the container to an enlargement on the end of a pull-chain and comprising two superposed relatively movable members each having an orifice of sufficient size to receive the enlargement and arranged so that in one relative position of the members the orifices register and permit the enlargement to be inserted through both orifices, and in other relative positions the members mutually close their said orifices sufficiently to prevent the escape of the enlargement.

2. A device for attachment to a sphere-like object such as the terminal ball of a ball-chain for electric pull-switches, comprising two sheet members pivotally secured to-

gether for relative angular movement and having ball-receiving orifices eccentric to the pivotal axis of the members and arranged so that said members will mutually open their said orifices sufficiently to receive the said sphere-like object when the members are in one relative angular position and will mutually close their said orifices sufficiently to retain said object when the members are in another relative angular position.

3. A device for attachment to a sphere-like object such as the terminal ball of a ball-chain, comprising two superposed members secured together and arranged for movement relative to each other and having ball-receiving orifices which open sufficiently to receive the terminal ball or like object when said members are in one relative position and which close sufficiently to retain the said object when said members are in another relative position, and a snap catch adapted to hold the said members in their said relative position which retains the object.

4. A device for attachment to a sphere-like object such as the terminal ball of a ball-chain for electric pull-switches, comprising two sheet members pivotally secured together for relative angular movement and having ball-receiving orifices eccentric to the pivotal axis of the members and arranged so that said members will mutually open their said orifices sufficiently to receive the said sphere-like object when the members are in one relative angular position and will mutually close their said orifices sufficiently to retain said object when the members are in another relative angular position, and one of said sheet members being adapted to spring into the orifice of the other member when the members assume their said relative angular position which retains the object.

5. A pendant for attachment to ball chains comprising a tubular member, a dome-shell

connected with the upper end of the tubular member and having an aperture adapted to admit the terminal ball of the chain, and an outer dome-shell swiveled on the first said shell and also having a ball receiving aperture, both of said apertures being eccentric to the swiveling axis of the outer shell so that in one angular position the outer shell will open both apertures sufficiently to admit the chain ball but in its reverse angular position will close said apertures sufficiently to retain the ball.

6. A pendant for attachment to ball chains comprising a tubular member, a dome-shell connected with the upper end of the tubular member and having an aperture adapted to admit the terminal ball of the chain, and an outer dome-shell swiveled on the first said shell and also having a ball receiving aperture, both said apertures being eccentric to the swiveling axis of the outer shell so that in one angular position the outer shell will open both apertures sufficiently to admit the chain ball but in its reverse angular position will close said apertures sufficiently to retain the ball, and the inner shell being adapted to spring into the aperture of the outer shell when the outer shell is turned into ball retaining position.

7. In combination with a container for self-luminous material, a cap therefor operative to attach the container to an enlargement on the end of a pull-chain and comprising two sheet members pivotally secured together and each having an orifice of sufficient size to receive the enlargement and eccentric to the pivotal axis of the members and extending across the pivotal axis, the orifices being so arranged as to register in one relative angular position of the members.

In testimony whereof, I have affixed my signature to this specification.

REINER W. ERDLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."