

No. 781,226.

PATENTED JAN. 31, 1905.

W. H. PERKINS.
INCANDESCENT LAMP SOCKET.
APPLICATION FILED OCT. 31, 1904.

Fig. 1.

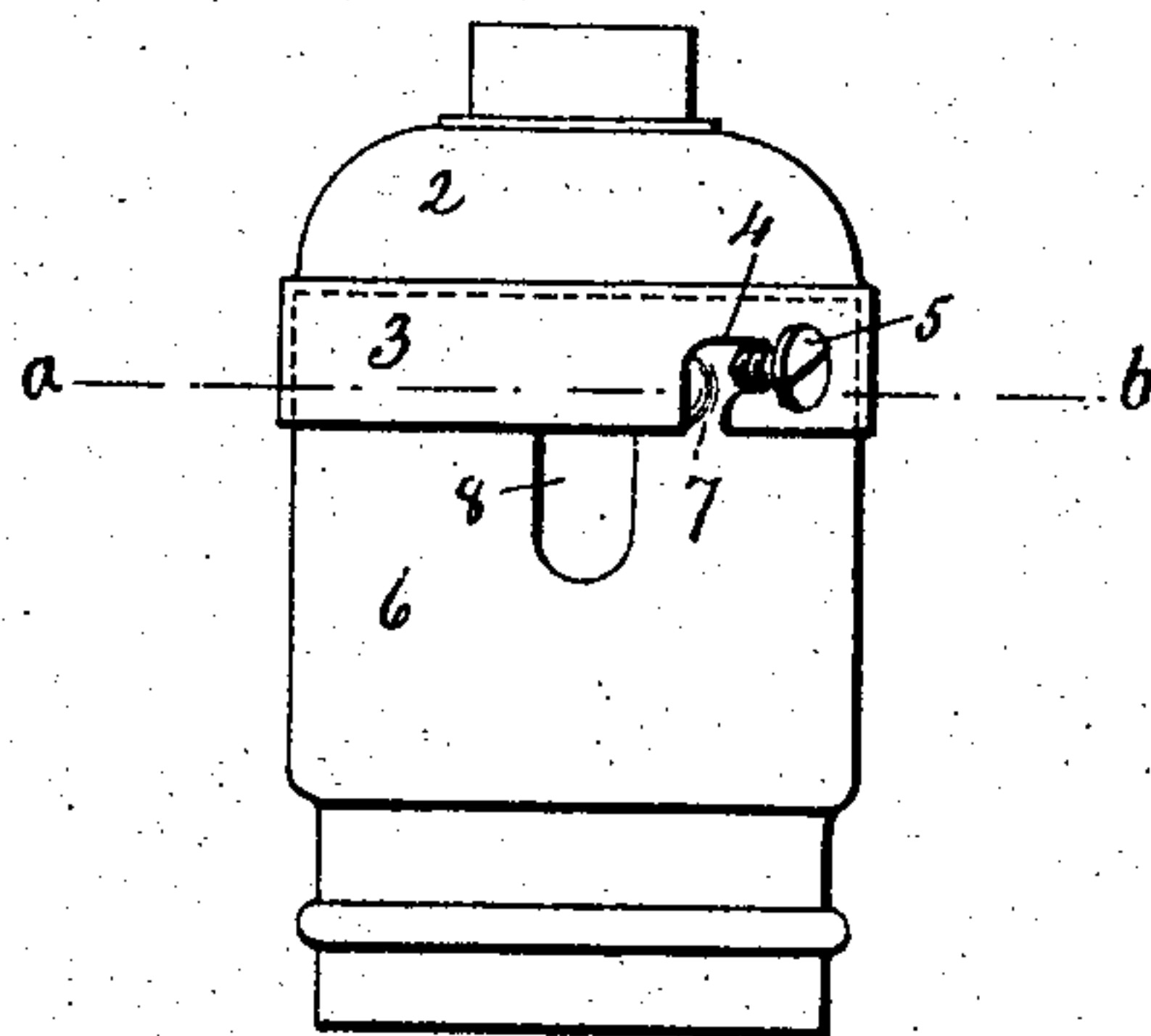


Fig. 4.

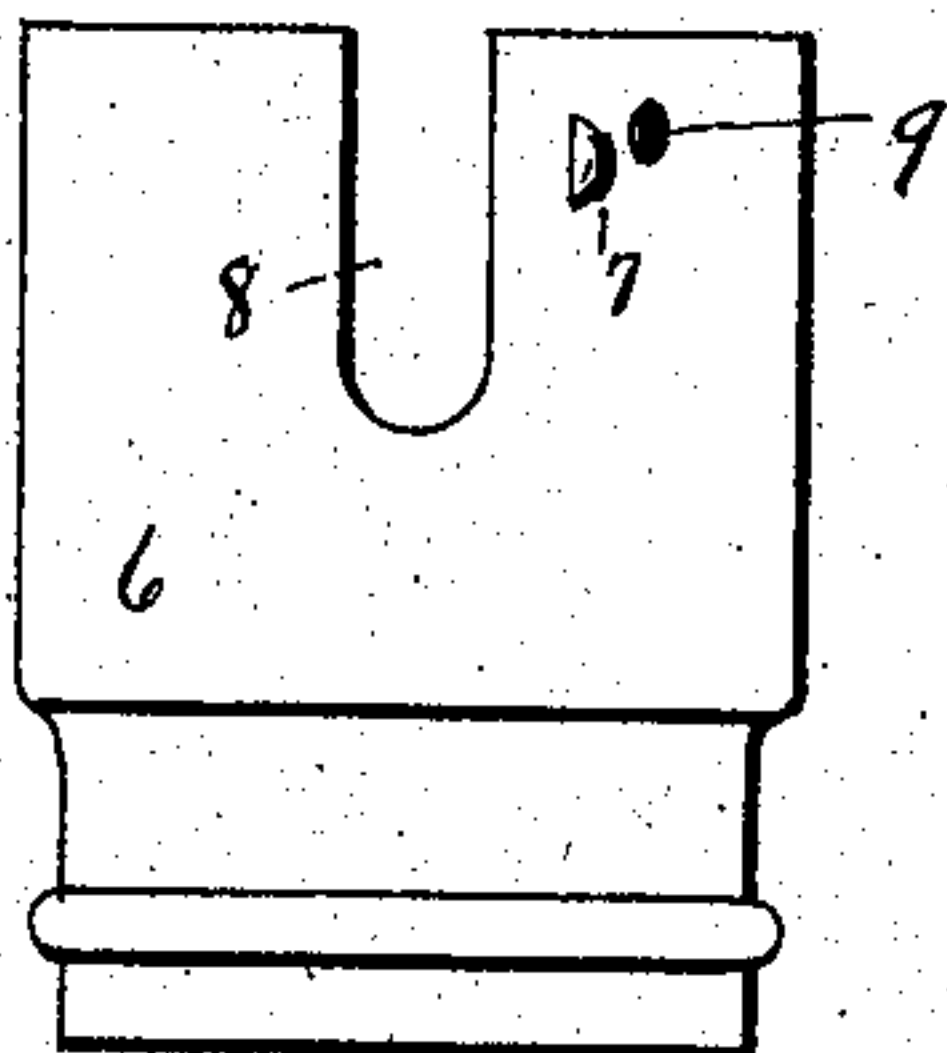


Fig. 2.

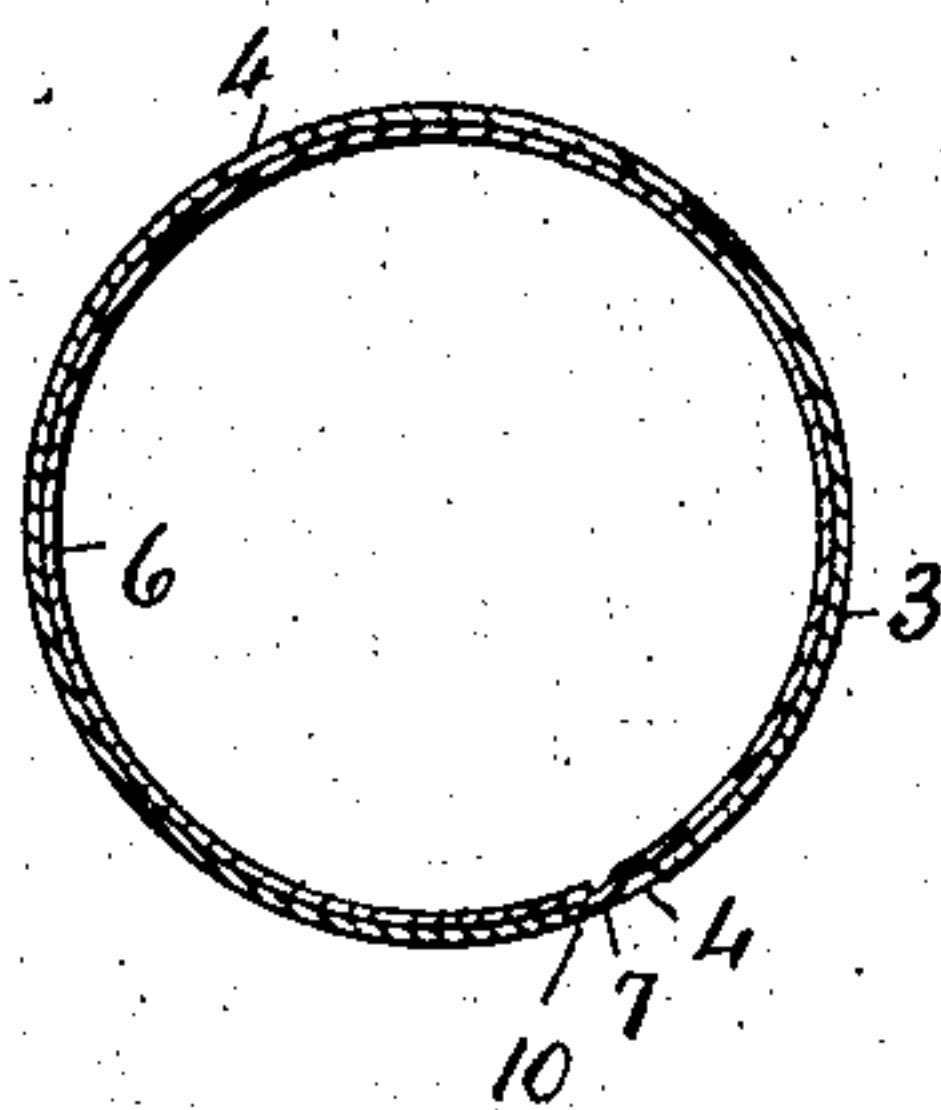
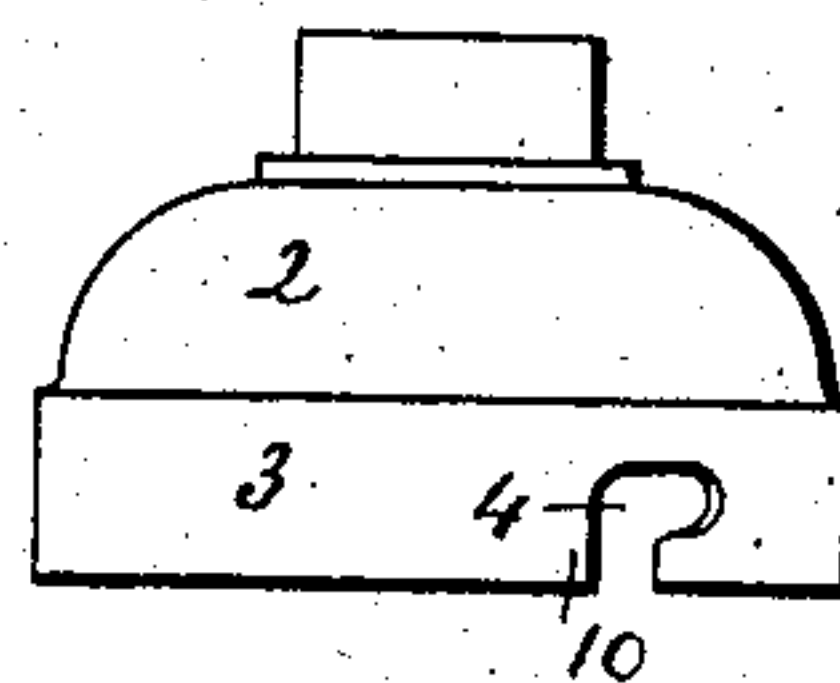


Fig. 3.



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UNITED STATES PATENT OFFICE.

WALTER H. PERKINS, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE
WATERBURY MFG. CO., OF WATERBURY, CONNECTICUT, A CORPORA-
TION.

INCANDESCENT-LAMP SOCKET.

SPECIFICATION forming part of Letters Patent No. 781,226, dated January 31, 1905.

Application filed October 31, 1904. Serial No. 230,762.

To all whom it may concern:

Be it known that I, WALTER H. PERKINS, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new and
5 useful Improvement in Incandescent-Lamp Sockets; and I do hereby declare the follow-
ing, when taken in connection with the accom-
panying drawings and the letters of reference
marked thereon, to be a full, clear, and exact
10 description of the same, and which said draw-
ings constitute part of this specification, and
represent, in—

Figure 1, a view in elevation of an incan-
descent-lamp socket constructed in accordance
15 with my invention; Fig 2, a view thereof in
transverse section on the line *a b* of Fig. 1;
Fig. 3, a detached view in elevation of the cap;
Fig. 4, a corresponding view of the shell.

My invention relates to an improvement in
20 incandescent-lamp sockets of that kind in
which a bayonet-joint lock is employed for se-
curing the cap and shell of the socket to-
gether, the object being to produce a simple
and compact device constructed with particu-
25 lar reference to the automatic locking of the
cap and shell against rotation when the screws
carried by the shell have reached the limit of
their movement in the horizontal portions of
the bayonet-slots in the cap.

30 With these ends in view my invention con-
sists in an incandescent-lamp socket having
certain details of construction, as will be here-
inafter described, and pointed out in the claim.

In carrying out my invention as herein
35 shown the sheet-metal cap 2, which may be
of any approved construction, has its depend-
ing flange 3 formed with two bayonet-joint
slots 4 of ordinary form. These slots receive
two screws 5, located opposite each other and
40 mounted near the upper edge of a sheet-metal
shell 6 of any approved construction. In the
drawings only one of these screws is shown.
The said shell and cap are coupled together
by entering the upper edge of the shell into
45 the flange 3 of the cap, with the shanks of the
screws 5 registered with the vertical portions
of the bayonet-slots 4. The shell and cap are
then pushed together, after which they are
rotated with respect to each other until the

screws reach the limit of their movement in 50
the horizontal portions of the slots. Now to
prevent them from being accidentally rotated
with respect to each other they are automat-
ically locked against such rotation by the
provision of the shell with a struck-up lock- 55
ing boss 7, located between its key-slot 8
and a screw-hole 9, receiving one of the
screws 5. The metal near the edge of the slot 8
is of course yielding, whereby the boss 7 is
given a spring action. The outer edge of the 60
said boss is made straight for engaging with
the longer outer wall of the vertical portion
of the complementary bayonet-joint slot 4 in
the cap. When the cap and shell are first put
together, the portion 10 of the cap rides over 65
the boss and springs the same inward. Then
when the shell and cap are rotated with re-
spect to each other the boss is gradually ex-
posed. Finally, when the limit of locking ro-
tation is reached the flange clears the boss, 70
which springs outward and engages its straight
outer edge with the outer wall of the vertical
portion of the slot 4, whereby the cap and
shell are automatically locked together against
rotation. To unlock them, it is, however, 75
only necessary to press the shell inward with
the thumb, and so disengage the locking-boss
from the said wall of the slot, after which the
cap is rotated, during which the boss passes
under the portion 10 of the flange 3. Then 80
when the screws are brought into registration
with the vertical portions of the bayonet-slots
the cap and shell may be drawn apart.

Although as herein shown the locking-boss
7 is produced by striking up the metal of the 85
shell 6 from the inner face thereof, it is appar-
ent that a locking-boss might be made inde-
pendent of the shell and soldered or otherwise
secured to the outer face thereof in right po-
sition thereon. I would therefore have it un- 90
derstood that I do not limit myself to the ex-
act construction shown, but hold myself at
liberty to make such variations therefrom as
fairly fall within the spirit and scope of my
invention. 95

Having fully described my invention, what
I claim as new, and desire to secure by Letters
Patent, is—

In an incandescent-lamp socket, the combination with a sheet-metal cap formed with one or more bayonet-joint slots, of a sheet-metal shell furnished with a screw for coaction with
5 each of the said slots, and a yielding locking-boss arranged to engage with a vertical wall of one of the said slots for holding the cap and shell in their rotated and locked positions.

In testimony whereof I have signed this specification in the presence of two subscrib- 10
ing witnesses.

WALTER H. PERKINS.

Witnesses:

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J. N. DUCHETTE.