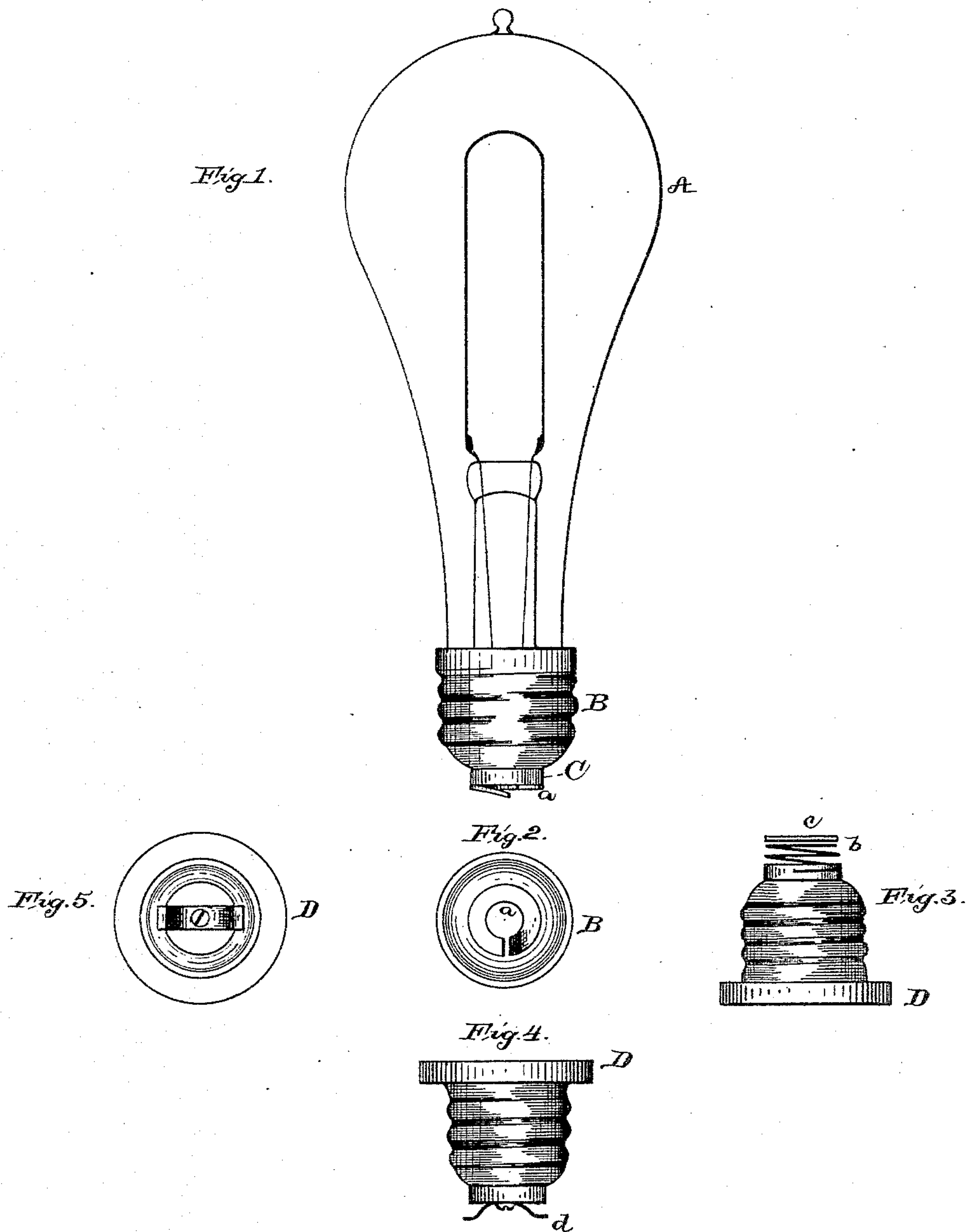


(No Model.)

T. A. EDISON.
INCANDESCENT ELECTRIC LAMP.

No. 304,086.

Patented Aug. 26, 1884.



WITNESSES:

E. C. Rowland
H. W. Lacey

INVENTOR:

Thomas A. Edison.
By Rich. H. Dyer,
Atty.

UNITED STATES PATENT OFFICE.

THOMAS A. EDISON, OF MENLO PARK, NEW JERSEY.

INCANDESCENT ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 304,086, dated August 26, 1884.

Application filed January 24, 1884. (No model.)

To all whom it may concern:

Be it known that I, THOMAS A. EDISON, of Menlo Park, in the county of Middlesex and State of New Jersey, have invented a new and
5 useful Improvement in Incandescing Electric Lamps, (Case No. 609,) of which the following is a specification.

The object of this invention is to provide
10 good electrical contact between the bottom plate of a socket or receptacle and the tip or button on the base of an electric lamp or on a safety-catch plug or a drop-light plug, which is inserted in such socket or receptacle; and also in the case of an incandescing electric
15 lamp to allow the lamp to be turned in the socket to bring the filament into any desired position without breaking connection. I accomplish this by providing the lamp base or
20 plug with a spring tending to force the two plates apart, through which spring the electrical connection is maintained. The two plates are thus held closely together, and a better contact is obtained than where the plates are simply placed together as heretofore. In the
25 sockets heretofore used, when the lamp is screwed down so that the base-plates are in contact, it cannot be moved any farther. Therefore the lamp cannot be adjusted so as to bring the filament into a different position. This
30 may produce an undesirable effect, for it is of course preferable that several lamps in the same fixture should have their filaments turned so as to produce a symmetrical appearance. When my invention is employed, the lamp may
35 be turned in the socket while the spring continues to maintain contact until the desired adjustment is reached.

In the accompanying drawings, Figure 1 is
40 a view in elevation of an electric lamp employing one form of my invention; Fig. 2, a bottom view of the same or of a similarly-con-

structed safety-catch or other plug. Figs. 3 and 4 are elevations of plugs having other forms of springs, and Fig. 5 a bottom view of the plug shown in Fig. 4.

It is evident that each form of spring can
45 be applied either to a lamp or to a plug.

A is the glass inclosing-globe of an incandescing electric lamp. The lamp is provided
50 with a base, upon which are fixed a screw-threaded metal band or ring, B, and a metal cap, C. Upon the cap C is attached a flat spring, *a*, soldered to the cap throughout a portion of its length, while a portion of it rises from the cap, so as to form a spring.

In Fig. 3 a spiral spring, *b*, is soldered to
55 the side of the cap and its other end to the bottom of a plate, *c*.

In Figs. 4 and 5, the bent spring *d* is attached
60 to the bottom of the cap.

In Figs. 3, 4, and 5, D is a safety-catch, drop-light, or other plug, which is the equivalent of a lamp, so far as this invention is concerned.

What I claim is—

1. An electric-lamp base or plug of insulat-
65 ing material provided with a metallic screw-ring upon the exterior of its body and a metallic spring-tip forming the terminals of the base or plug, substantially as set forth.

2. An electric-lamp base or plug of insulat-
70 ing material provided with a metallic screw-ring upon the exterior of its body, a metallic tip, and a spring secured to such tip and forming a yielding extension thereof, substantially as set forth.

This specification signed and witnessed this
75 15th day of December, 1883.

THOS. A. EDISON.

Witnesses:

H. W. SEELY,
EDWARD H. PYATT.