

No. 712,686.

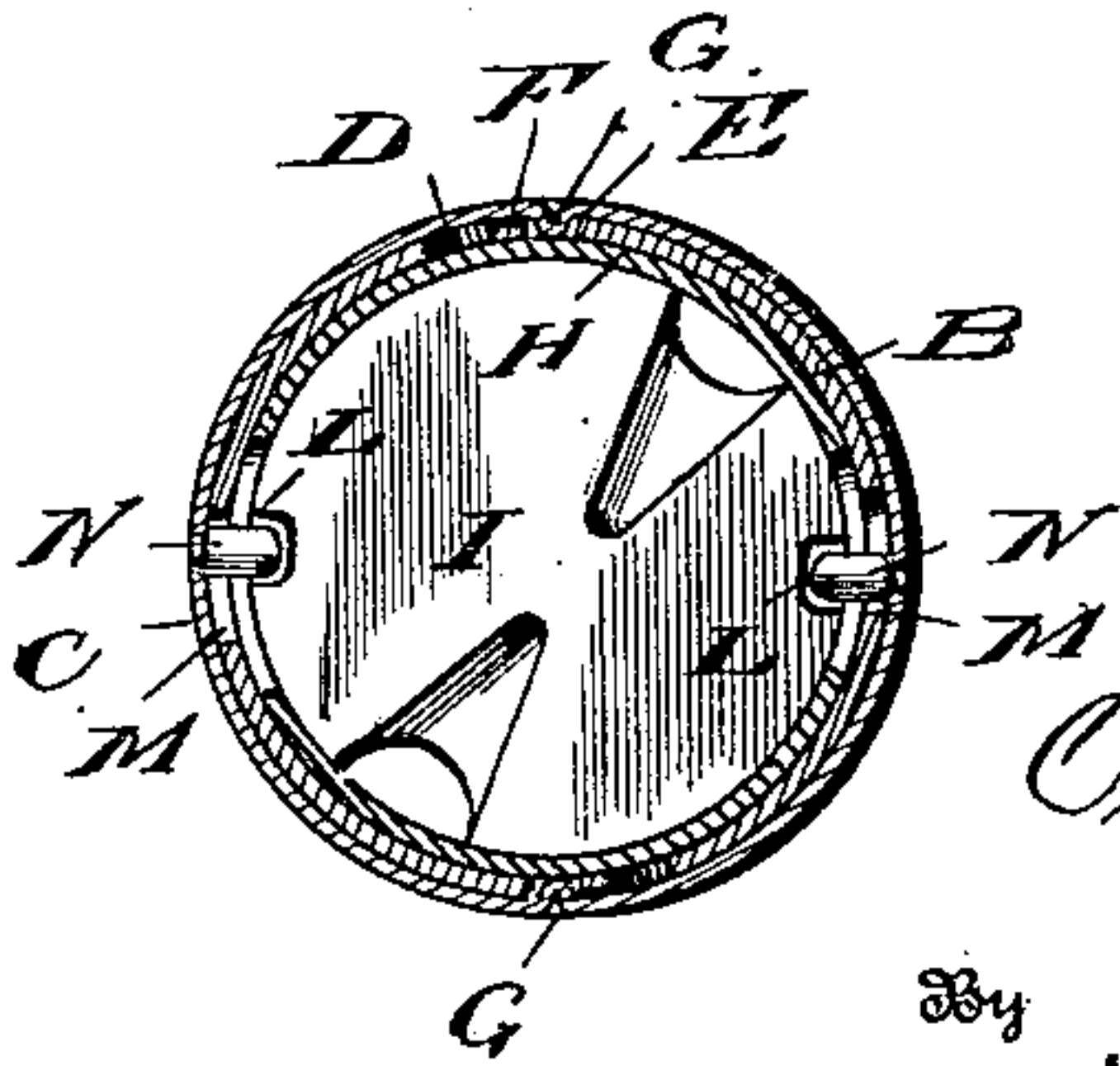
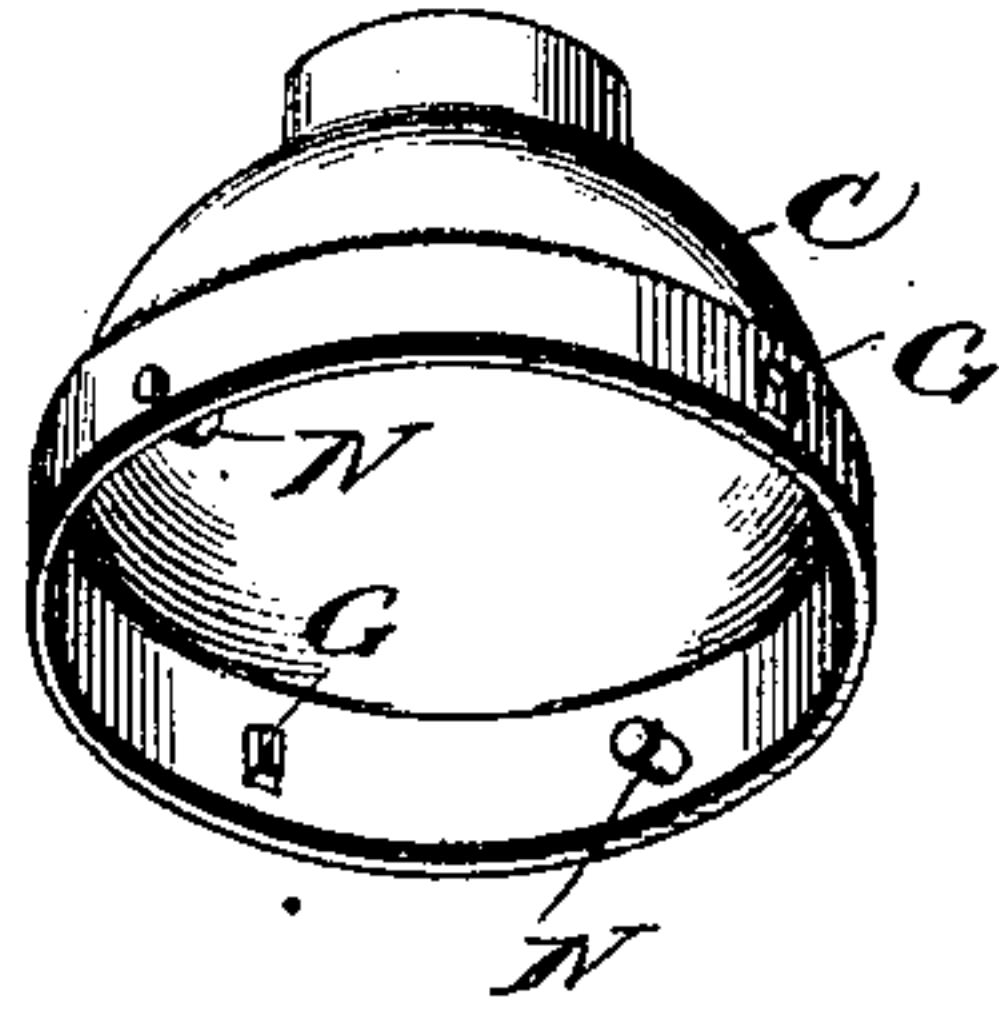
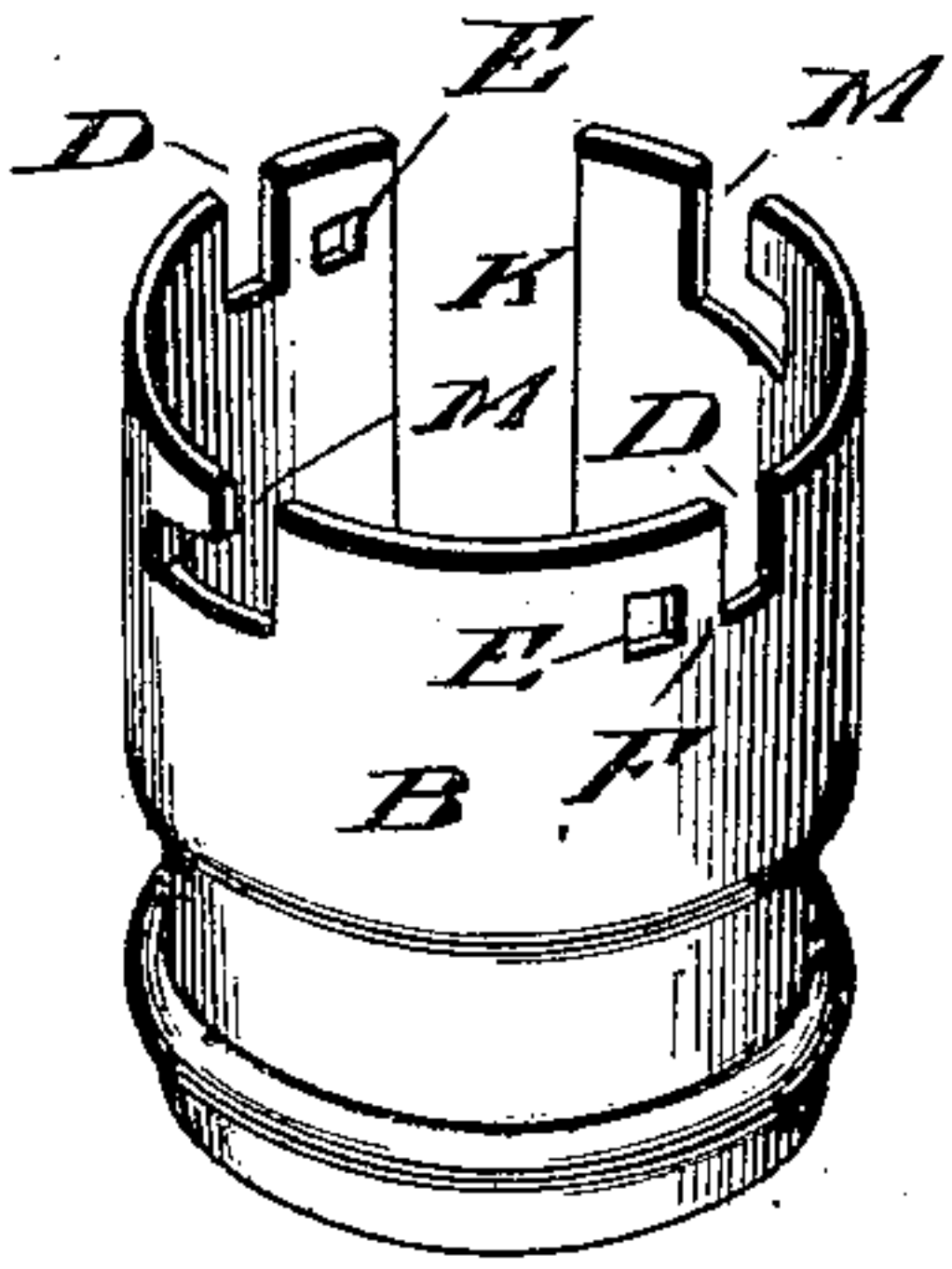
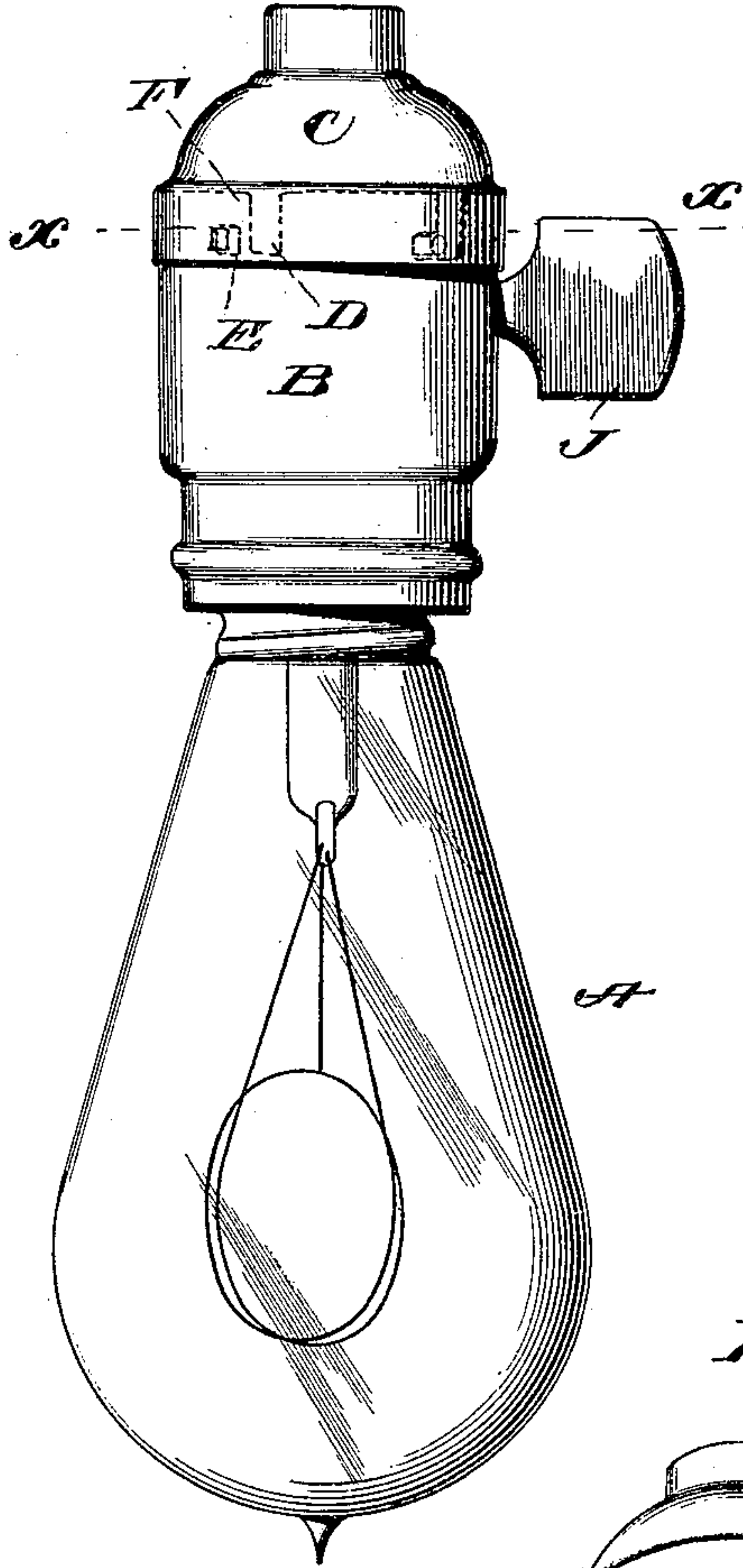
Patented Nov. 4, 1902.

O. E. KENNEY.

SOCKET FOR INCANDESCENT LAMPS.

(Application filed May 31, 1902.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

OWEN E. KENNEY, OF TOLEDO, OHIO, ASSIGNOR TO YOST-MILLER COMPANY,
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SOCKET FOR INCANDESCENT LAMPS.

SPECIFICATION forming part of Letters Patent No. 712,686, dated November 4, 1902.

Application filed May 31, 1902. Serial No. 109,671. (No model)

To all whom it may concern:

Be it known that I, OWEN E. KENNEY, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have
5 invented certain new and useful Improvements in Sockets for Incandescent Lamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in
10 the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in sockets for incandescent lamps, and particularly to that class
15 in which the circuit is closed and opened through the medium of a revoluble key journaled in the insulator-blocks—such, for instance, as shown in the Letters Patent No. 698,394, granted to the Yost-Miller Company
20 as assignee of L. P. Dixon, on the 22d day of April, 1902.

My invention has for its object to provide simple and efficient means for securing the body and cap portions of the socket-inclosing shell together, and at the same time to
25 secure the socket proper against accidental movement or rotation within the shell during the manipulation of the key.

With these ends in view my invention consists in forming the shell with open-end slots or gates at the upper edge and adjacent slots or pockets, with a bridge or partition between them and the open-end gates or slots, and forming the cap with radial inwardly-projecting studs adapted to enter the vertical
35 gates or slots and to spring into the adjacent slots or pockets, as described and illustrated in another application for Letters Patent filed of even date herewith, and combining with
40 said features of construction bayonet-slots in the shell intermediate of those referred to and providing the cap with additional radial projections intermediate of those referred to and of suitable proportions to enter pockets
45 or recesses within the periphery of the socket-base or insulator-block to lock the same in position, all as will be hereinafter more fully explained.

In order that those skilled in the art to
50 which my invention appertains may know

how to make and use the same, I will proceed to describe the construction, referring by letters to the accompanying drawings, in which—

Figure 1 is a side elevation of a lamp and
55 socket embodying the features of my invention. Fig. 2 is a cross-section on the line *xx* of Fig. 1. Fig. 3 is a perspective view of the sheet-metal shell of the socket, and Fig. 4 is a similar view of the sheet-metal cap designed
60 for attachment to the ordinary fixture and to conceal and hold the socket within the shell.

Similar letters of reference denote like parts in the several figures of the drawings. 65

A is an ordinary lamp, designed to be attached to the socket in any of the manners well known in the art, B is the socket-shell, and C is the cap, made of sheet metal. D represents vertical slots or gates; E, slots
70 adjacent thereto and separated therefrom by partitions F. G represents radial projections on the interior of the cap C, designed to travel vertically in the slots or gates D and laterally into the slots E, and H and I are respectively the insulating lining and blocks, all as fully described in my other application
75 hereinbefore referred to. In addition to these features of construction J represents the ordinary key, which is employed to close
80 or open the circuit. This key is journaled in the socket proper, and when the socket and key are introduced within the shell B the key travels down and is located within a vertical slot K. (See Fig. 3.) The upper
85 insulator block or base I is formed near its face with diametric pockets or recesses L, for the purpose presently explained.

M M are diametric bayonet-slots formed in the shell B intermediate of the gates and
90 pockets D E, as is usual in lamp-sockets of ordinary construction. The cap C in addition to the radial projections G G is provided with diametric projections or lugs N N intermediate of the projections G and of sufficient
95 length to pass through the bayonet-slots M and into the sockets L in the periphery of the block or base I, as clearly shown at Fig. 2.

While I have described and shown the respective slots in the shell B and the radial 100

projections on the cap C as arranged diametrically, it will be understood that they may be otherwise arranged, if preferred, so long as they operate to secure the several parts together properly.

With the construction shown and described it will be seen that when the socket proper is located within the shell B the cap C is connected with the shell and socket by passing
10 the projections G down the open-ended slots or gates D, while the studs N are passed down the vertical portion of the bayonet-slots M, whereupon the cap is turned to the right and the radial projections G, passing over
15 the bridge or partition F, will seat themselves within the adjacent slots E in the manner described in the application hereinbefore referred to, while at the same time the longer projections or studs N will travel within the
20 lateral or horizontal portion of the bayonet-slots M and be seated within the recesses or pockets L in the insulator-block or base I, as clearly shown at Fig. 2, thus securely fastening the several parts together in such man-
25 ner that they will be held against accidental displacement or separation.

It will be seen that with the construction described the several fastening devices of the shell and cap are integral therewith, and con-
30 sequently cannot become separated therefrom

and require no mechanical manipulation to make them effective.

The radial projections G of the cap C are preferably formed by a male and female die or in any other manner, and the intermediate
35 lugs or projections N may be secured in position by brazing and riveting or in any other suitable manner.

What I claim as new, and desire to secure by Letters Patent, is—
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In an incandescent-lamp socket, a sheet-metal shell formed with vertical open-end gates or slots and slots or pockets adjacent to the open-end gates and separated there-
45 from by a bridge or partition, and with intermediate bayonet-slots; and a sheet-metal cap formed with radial projections adapted to enter the vertical gates or slots and to be seated in the adjacent slots or pockets, and
50 with intermediate lugs adapted to enter the bayonet-slots in the shell and project within suitable pockets within the periphery of the base or insulator-block of the socket, substantially as and for the purpose set forth.

In testimony whereof I affix my signature
55 in presence of two witnesses.

OWEN E. KENNEY.

Witnesses:

JOSEPH K. YOST,
ANNA M. YOST.