

**No. 692,260.**

**Patented Feb. 4, 1902.**

**H. GARWOOD.**  
**INCANDESCENT LAMP.**

(Application filed Sept. 9, 1901.)

(No Model.)

FIC. 1.

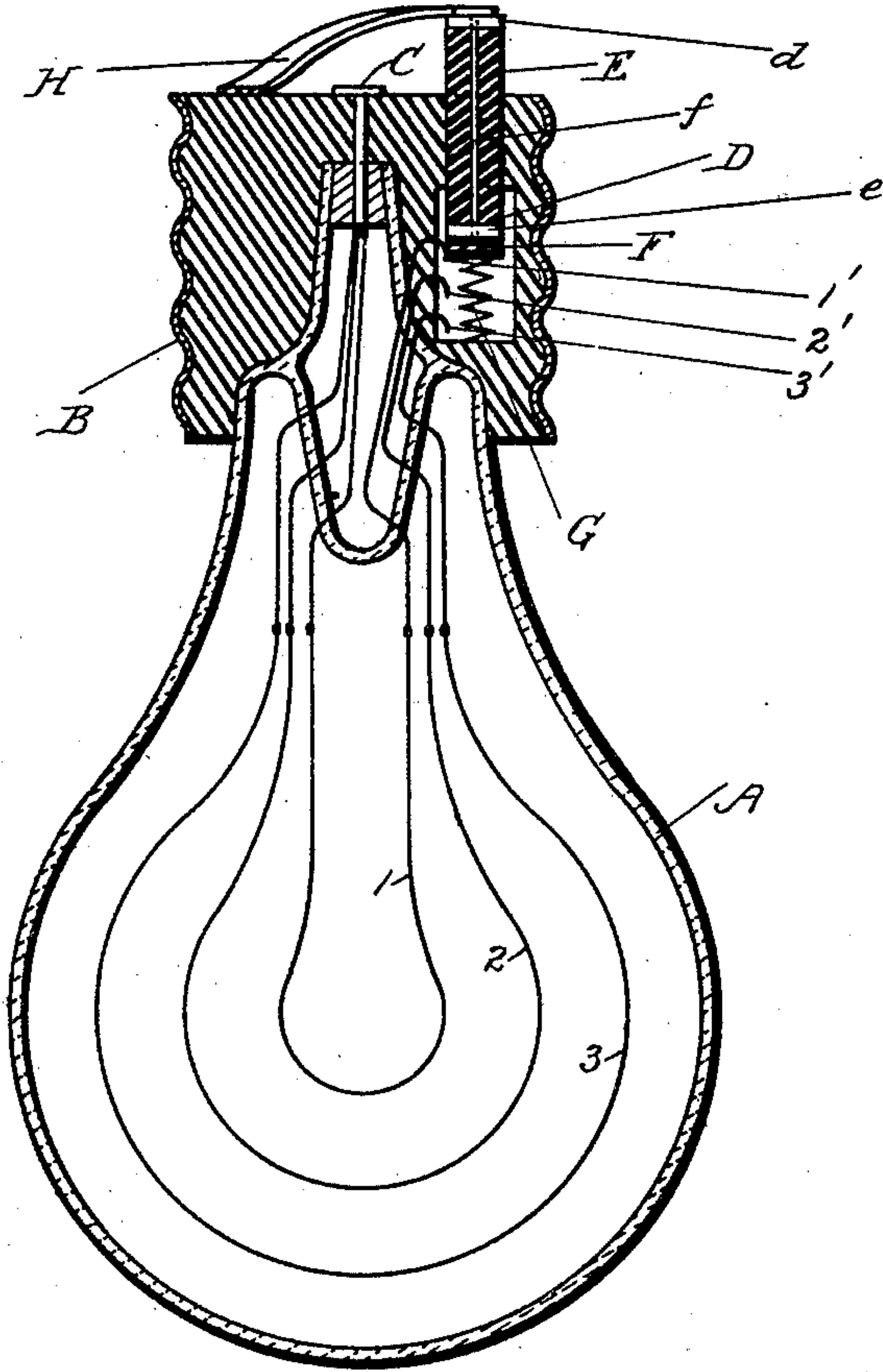
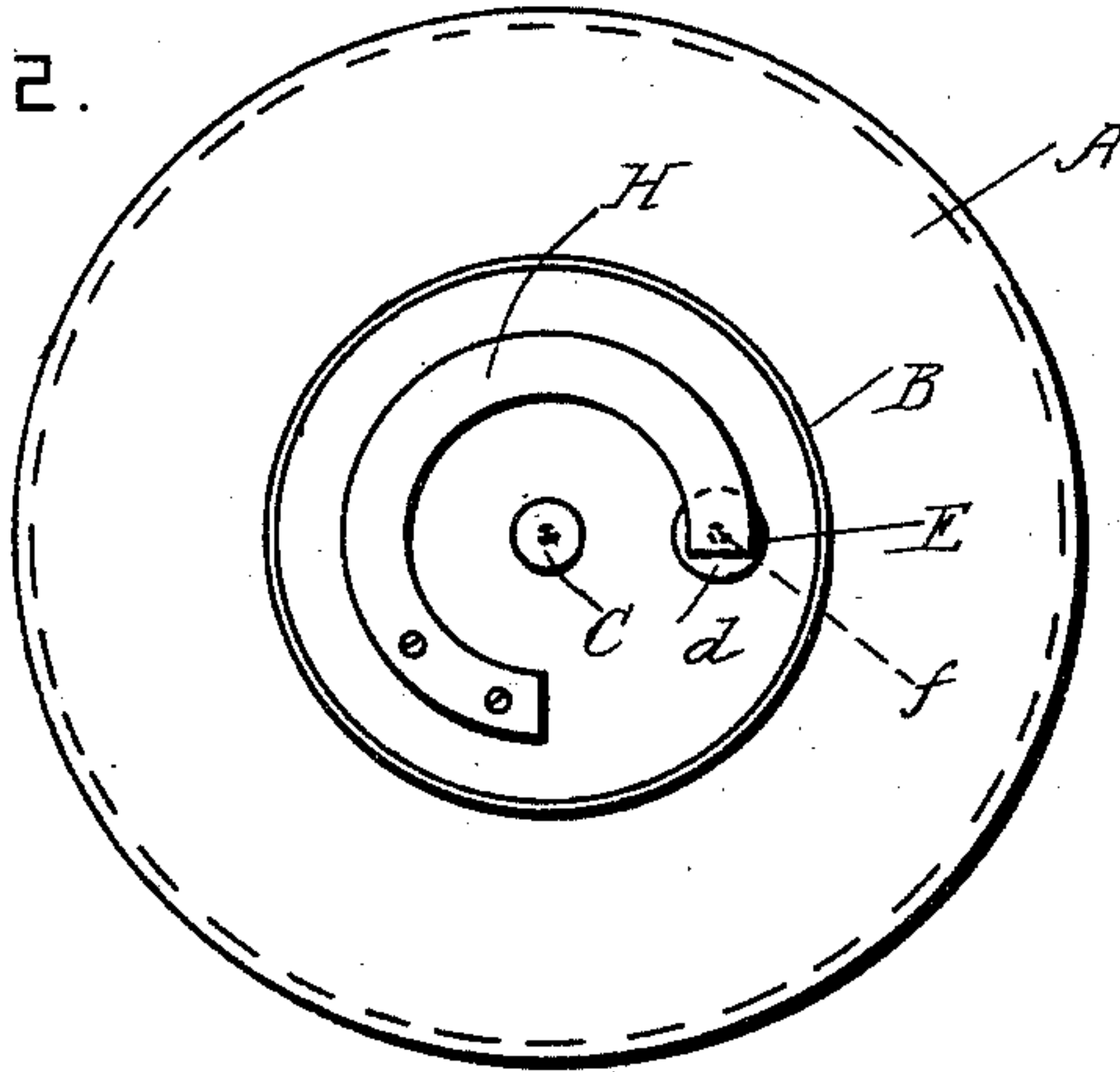


FIG. 2.



WITNESSES

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# UNITED STATES PATENT OFFICE.

HOMER GARWOOD, OF OTTAWA, OHIO.

## INCANDESCENT LAMP.

SPECIFICATION forming part of Letters Patent No. 692,260, dated February 4, 1902.

Application filed September 9, 1901. Serial No. 74,764. (No model.)

*To all whom it may concern:*

Be it known that I, HOMER GARWOOD, a citizen of the United States, residing at Ottawa, in the county of Putnam and State of Ohio, have invented certain new and useful Improvements in 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 the art to which it appertains to make and use the same.

This invention relates to the incandescent lamps used in electric-light installations; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a vertical section through the lamp. Fig. 2 is a plan view of the lamp.

A is the bulb of the lamp, and B is the screw-threaded socket by which it is secured in position.

The lamp is provided with a series of filaments 1 2 3, &c., of any approved manufacture, but of different candle-power. At one end all these filaments are connected with a single contact-piece C at the socket B. At the other end each filament has a separate contact-piece 1' 2' 3', &c., and these contact-pieces are arranged one above the other in a recess or guide D, which is formed in the socket B.

E is a bar of insulating material, such as hard rubber, which is slidable longitudinally in the guide D. The bar E has a metallic contact-plate *d* at its top, a second contact-plate *e* at its lower part, and a wire *f*, which connects the two said contact-plates.

F is a plate of insulating material which covers the bottom of the contact-plate *e*.

G is a spring in the lower part of the guide D, which normally holds the bar E in its raised position, so that the contact-plate *e* is clear of the highest contact-piece 1'.

H is a contact-spring which is secured to the socket B. The spring G presses the bar E upward and holds its contact-plate *d* against the free end portion of the contact-spring H.

When the lamp is placed in position, the contact-spring H and the contact-piece C are

placed in circuit with the line-wires. The lamp is varied by screwing up the socket B and bringing the filaments one after another into circuit, according to the amount of light required.

In a simple form of lamp the spring C, plate F, and contact-plate *d* may be dispensed with, and the contact-spring H may be rigidly secured to the upper end of the wire *f*. When the lamp is constructed in this manner, the bar E is normally held up by the spring H.

What I claim is—

1. The combination, with an electric lamp provided with a plurality of filaments having separate contact-pieces at one end arranged one above the other, of a vertically-slidable contact-plate which engages with the said contact-pieces one after the other, substantially as set forth.

2. The combination, with an electric lamp provided with filaments of different candle-power having separate contact-pieces at one end, and having also a screw-threaded socket and a guide; of a bar of insulating material slidable in the said guide and provided with a contact-plate for engaging with the said contact-pieces one after another, and a spring which normally holds the said bar in a prearranged position; substantially as set forth.

3. The combination, with an electric lamp provided with a series of filaments of different candle-power having separate contact-pieces at one end, and having also a screw-threaded socket and a guide; of a bar of insulating material slidable in the said guide and provided with contact-plates at its end portions and a wire connecting them, a spring in the guide, an insulating-plate between the said spring and the contact-plate at the inner end of the said bar, and a contact-spring secured in the said socket and bearing on the contact-plate at the outer end of the said bar, substantially as set forth.

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

HOMER GARWOOD.

Witnesses:

ROBT. BUCKWALTER,  
FRED. M. ROSS.