

(No Model.)

C. R. ARNOLD.

AUTOMATIC SWITCH BOARD FOR ELECTRIC LAMPS.

No. 328,832.

Patented Oct. 20, 1885.

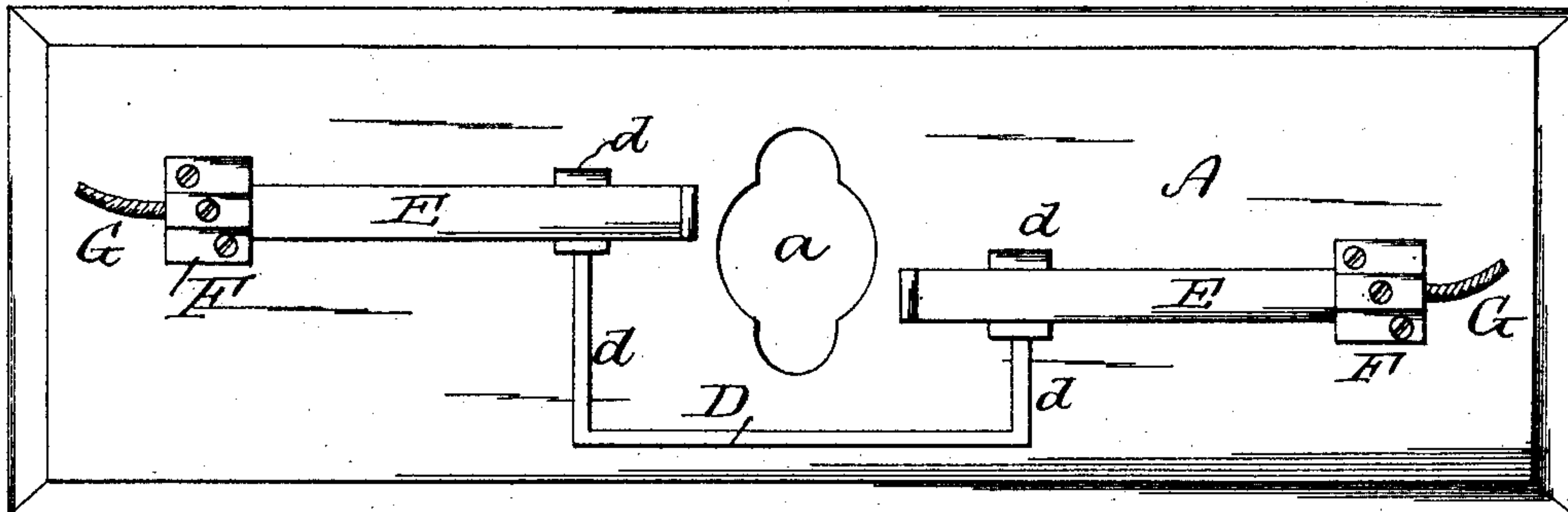


Fig. 1

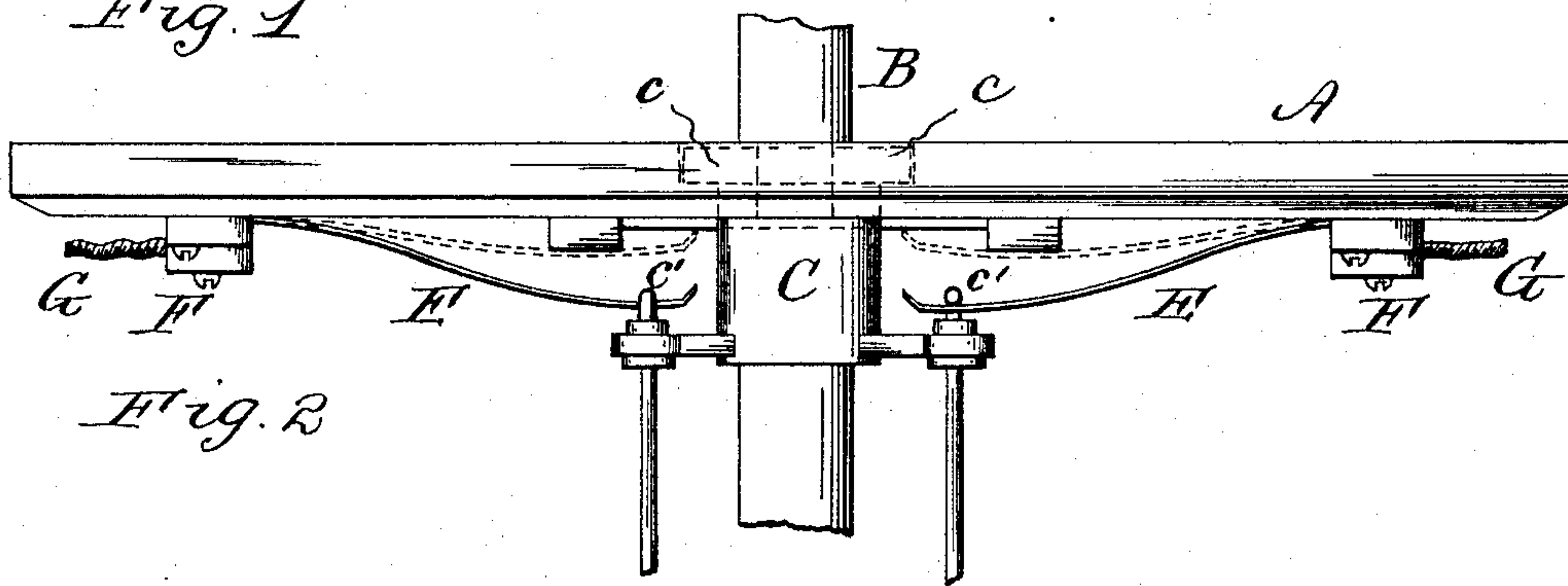


Fig. 2

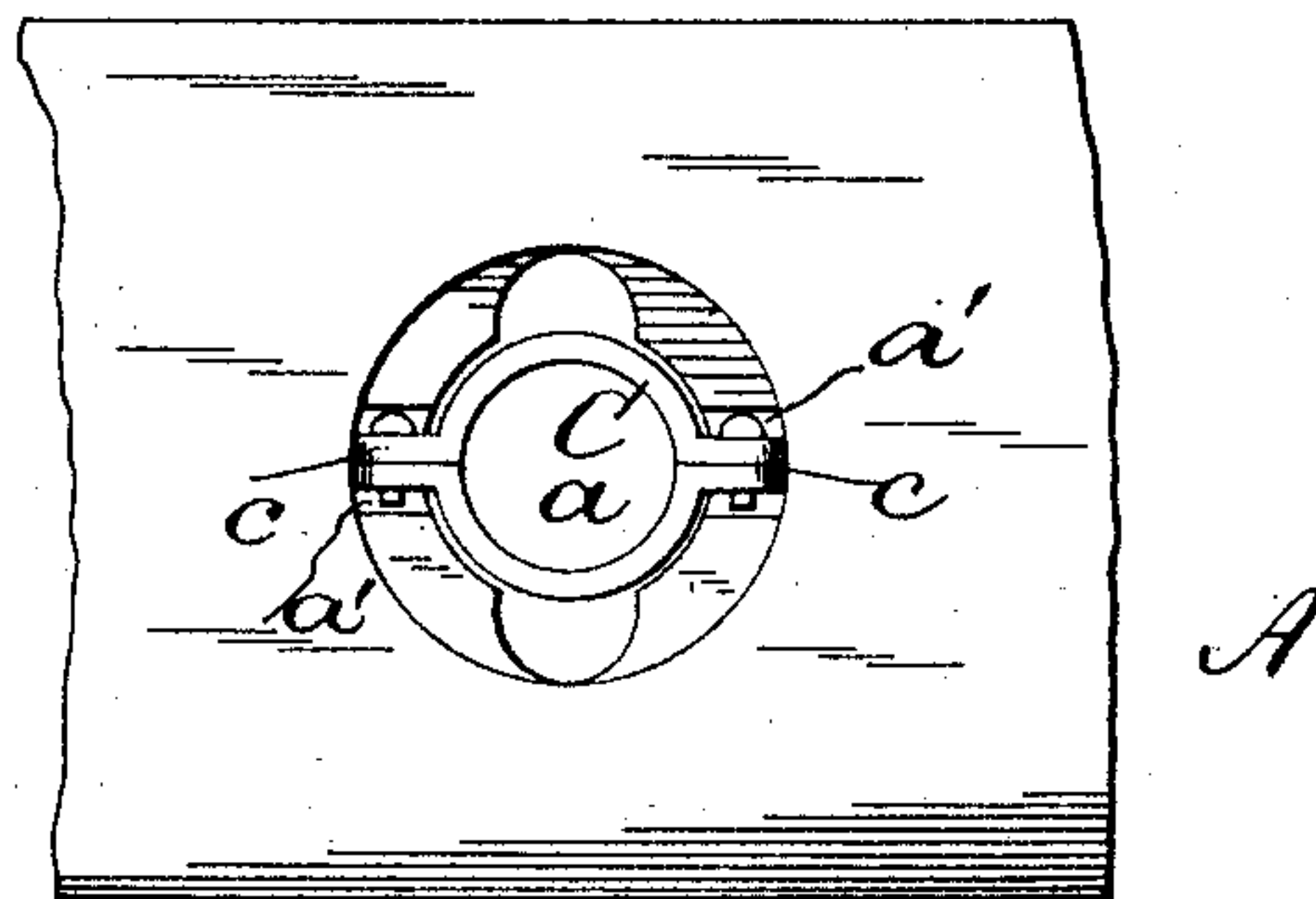


Fig. 3

WITNESSES:

M. J. Hauck  
T. F. Zolden.

INVENTOR

C. R. Arnold

By S. Van Stravoren  
ATTORNEY

# UNITED STATES PATENT OFFICE.

CRAIG R. ARNOLD, OF PHILADELPHIA, PENNSYLVANIA.

## AUTOMATIC SWITCH-BOARD FOR ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 328,832, dated October 20, 1885.

Application filed May 13, 1885. Serial No. 165,371. (No model.)

*To all whom it may concern:*

Be it known that I, CRAIG R. ARNOLD, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Automatic Switch-Boards for Electric Lamps, of which the following is a specification, reference being had therein to the accompanying drawings, wherein—

Figure 1 is an inverted plan view of a switch-board for electric lamps embodying my invention. Fig. 2 is a side elevation of same, showing the horn of the lamp in position thereon, and the line-circuit completed or made for the lamp; and Fig. 3 is a broken top view of switch-board and collar on the lamp-horn.

My invention has relation to automatic switch-boards for electric lamps; and it has for its object simplicity of construction, whereby the gravity of the lamp when placed upon the switch-board moves its contact or spring-fingers to complete or switch the line-circuit through the lamp.

My invention accordingly consists of the combination, construction, and arrangement of parts, as hereinafter more specifically described and claimed.

In the drawings, A represents a base-board or plate of suitable electric non-conducting material having a suitable opening, *a*, for the passage of the lamp-horn B and its collar attachment C. The latter is provided with lugs *c*, for sustaining or supporting the lamp upon board A, and with the hook or like connections *c'* for leading the current to and through the lamp or making circuit therewith in the usual or other desired manner.

In the top of the opening *a* are formed lateral recesses *a'*, in which the lugs *c* of collar C rest when the lamp is suspended from board A. Upon the under side of the latter is se-

cured a fixed bow, yoke, or other appropriately-shaped casting, D, having, preferably, parallel ends *d d*, suitably enlarged, if desired, to obtain greater contact-surface. Upon these ends normally impinge the spring or movable contact-fingers E E, suitably clamped or secured to board A by plates F, which may have binding screws or posts for connecting the line-wires G G thereto.

When the lamp is off the switch-board, the spring-fingers E E contact with the ends *d d* of bow D, and complete the line circuit through the switch. When, however, the horn of the lamp is inserted into and partially turned in opening *a* of board A until the lugs *c* of collar C drop or pass into the side recesses, *a'*, of said opening, the lamp-hooks *c'* first engage with the spring-fingers E E, and the gravity of the lamp moves or causes its hooks *c'* to depress said fingers E E out of contact with the ends *d d* of bow D, to switch the line-current or complete its circuit through the lamp, and be duly maintained as long as the lamp is suspended from the switch-board.

What I claim is—

1. The switch-board A, having opening *a* provided with recesses *a'*, the fixed bow D, and metal or spring fingers E, in contact with said bow, substantially as shown and described.

2. An electric lamp having collar C, with lugs *c* and hooks *c'*, in combination with a switch-board, A, having opening *a*, side recesses, *a'*, in said opening, bow D, and contact-fingers E E, substantially as shown and described.

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

CRAIG R. ARNOLD.

Witnesses:

S. J. VAN STAVOREN,  
CHAS. F. VAN HORN.