(No Model.)

J. STEWART.

ELECTRIC LAMP ADAPTER.

No. 420,706. Patented Feb. 4, 1890.

Fig. 1.

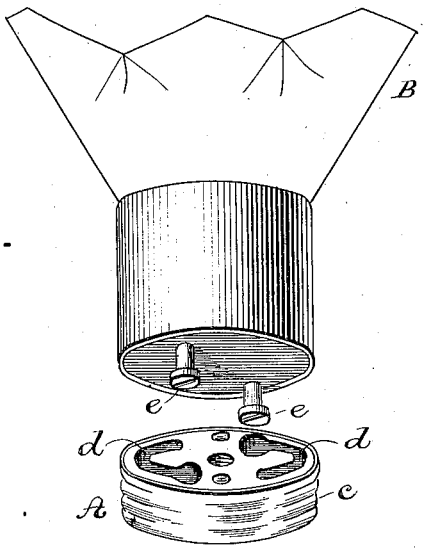


Fig. 2.

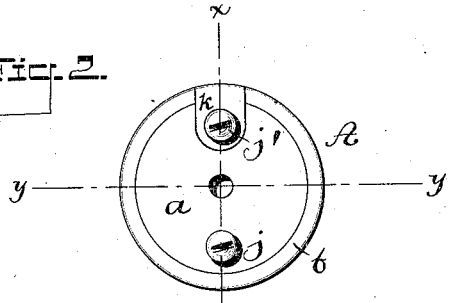


Fig. 3.

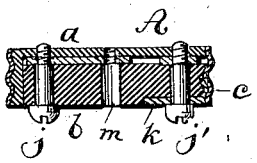


Fig. 4.

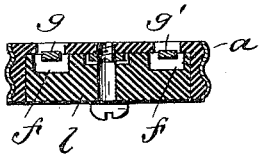


Fig. 5.

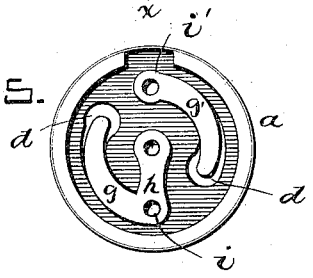


Fig. 6.

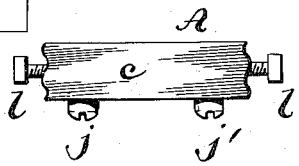
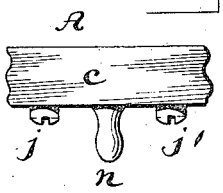


Fig. 8.

Fig. 7.



WITNESSES:

O. D. Mott

E. Sedgwick

INVENTOR:

J. Stewart

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES STEWART, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO EDMUND C. STANTON, OF SAME PLACE.

ELECTRIC-LAMP ADAPTER.

SPECIFICATION forming part of Letters Patent No. 420,706, dated February 4, 1890.

Application filed August 4, 1888. Serial No. 281,957. (No model.)

To all whom it may concern:

Be it known that I, JAMES STEWART, of the city, county, and State of New York, have invented a new and Improved Electric-Lamp Coupler or Adapter, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a perspective view of my improved lamp-adapter, showing the lamp in position for connection with the coupler or adapter. Fig. 2 is an inverted plan view of the coupler or adapter. Fig. 3 is a transverse section taken on line *x x* in Fig. 2. Fig. 4 is a transverse section taken on line *y y* in Fig. 2. Fig. 5 is a plan view with the top removed. Fig. 6 is a side elevation of a coupler or adapter designed for connection with the socket by means of a bayonet-joint. Fig. 7 is a side elevation of the coupler or adapter arranged to make a connection with a socket having central clip-springs for making one of the contacts, and Fig. 8 is a side elevation of the stud which is received between the spring-clips of the lamp-socket.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to construct a coupler or adapter by means of which a lamp having terminals in the form of headed studs may be adapted to any of the usual well-known electric-lamp sockets.

My invention consists in a hollow button of insulating material containing two flat curved springs provided with a screw-threaded peripheral band of metal and furnished with changeable contact-screws, all as hereinafter more fully described. The button A is formed of the parts *a b*, the part *a* being made of insulating material in the shape of a cup, which is adapted to receive the part *b*, of similar material. The periphery of the part *a* is surrounded by a sheet-metal band *c*, spun into the form of a screw-thread, which is adapted to fit screw-threaded lamp-sockets. In the top of the cup-shaped part *a* are formed curved key-slots *d*, for receiving the headed studs *e*, forming the terminals of the lamp-base B, and in the upper surface of the part *b* are formed curved cavities *f*, over which are supported the free ends of the curved flat springs *g g'*. The spring *g* is provided with an arm *h*, which extends from the heel of the spring to the center of the part *b*. In the heels of the springs *g g'* are formed holes *i i'* for receiving the screws *j j'*, which clamp the springs in their places, and also hold the two parts of the button together. The screws *j j'* are provided with shoulders which bear upon the springs and form an electrical contact. The end of the arm *h*, which is at the center of the button A, is apertured to receive the threaded end of the screw. The free ends of the springs *g g'* are supported opposite the larger ends of the key-slots *d* in the part *a*. In the part *b* is formed a recess, to which is fitted an apertured metallic plate *k*, which extends over the edge of the band *c*, and is held in place by the screw *j'*.

When the coupler or adapter is to be received in a socket slotted for a bayonet-joint connection, screws *l* are inserted at diametrically-opposite points in the edge of the button. To fit my coupler or adapter to a socket provided with two curved flat springs, the screws *j j'* are inserted, as shown in Figs. 2 and 3.

When it is desired to apply my coupler or adapter to a socket having a central flat spring and a threaded socket, the screw *j* is removed from the side hole and placed in the central hole *m*, where it forms a connection with the spring *g* through the arm *h*.

When it is desired to apply the coupler or adapter to a screw-threaded lamp-socket provided with a central clip-spring for making one of the connections, the screw *n*, having an elongated head, as shown in Figs. 7 and 8, is inserted in the central hole *m*, and when it is desired to make connection with a lamp having a metallic socket which forms no part of the circuit the apertured plate *k* is removed.

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

1. In an electrical lamp coupler or adapter, a button formed of the cup-shaped part *a*, having curved key-slots *d*, the part *b*, fitted

to the part *a* and furnished with curved recesses *f*, the spring *g*, having the arm *h*, the spring *g'*, the shouldered screws *j j'*, adapted to clamp the springs *g g'* in the position of use, and the peripheral band *c*, substantially as specified.

2. In an electrical lamp coupler or adapter, a button formed of the cup-shaped part *a*, having curved key-slots *d*, the part *b*, fitted to the part *a* and furnished with curved recesses *f*, the spring *g*, having the arm *h*, the spring *g'*, the shouldered screws *j j'*, adapted to clamp the springs *g g'* in the position of use, the peripheral band *c*, and the apertured plate *k*, adapted to form an electrical contact with the peripheral band *c*, substantially as specified.

3. In an electrical lamp coupler or adapter, the combination, with the springs *g g'*, of the screw *n*, having an elongated head and adapted to form an electrical connection with the spring *g*, the screw *j'*, the apertured plate *k*, and the peripheral band *c*, substantially as specified.

JAMES STEWART.

Witnesses:
C. SEDGWICK,
E. M. CLARK.