

No. 705,597.

Patented July 29, 1902.

T. E. MURRAY.
ELECTRIC SIGN.

(Application filed Feb. 11, 1902.)

(No Model.)

Fig. 3.

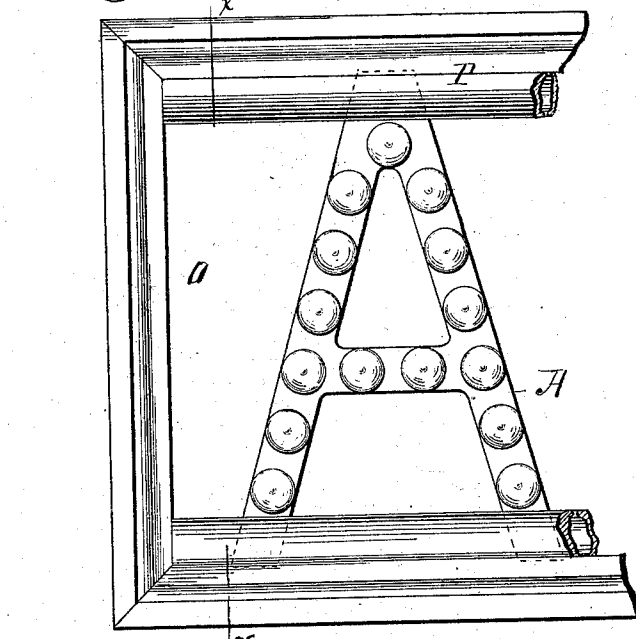


Fig. 4.

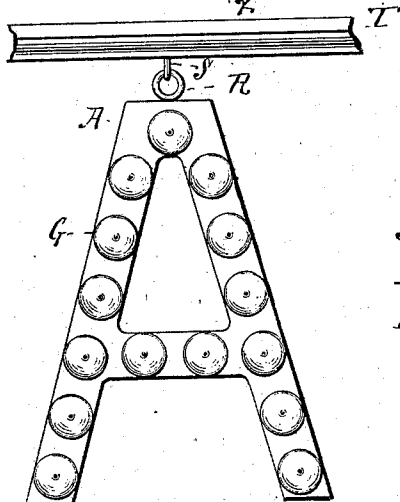
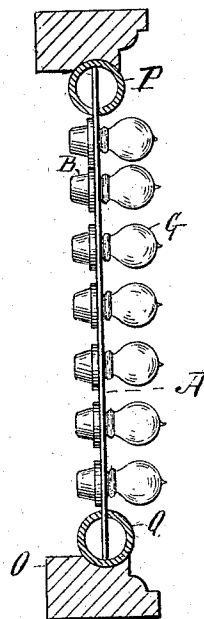


Fig. 1.

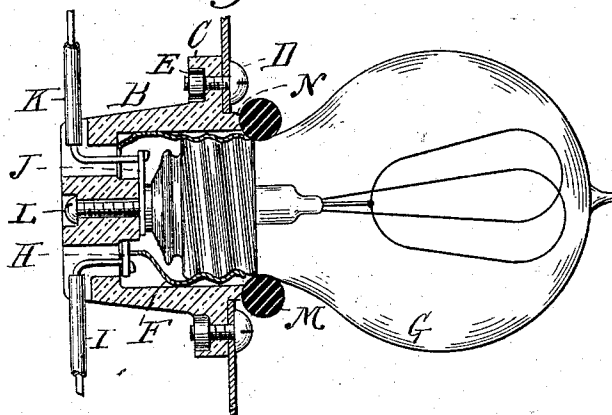


Fig. 2.

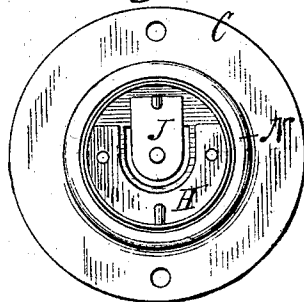


Fig. 5.

WITNESSES:

J. A. Van Wast.
O. R. Robby

INVENTOR

Thomas E. Murray
BY *Paul Benjamin*
his ATTORNEY

UNITED STATES PATENT OFFICE.

THOMAS E. MURRAY, OF NEW YORK, N. Y.

ELECTRIC SIGN.

SPECIFICATION forming part of Letters Patent No. 705,597, dated July 29, 1902.

Application filed February 11, 1902. Serial No. 93,520. (No model.)

To all whom it may concern:

Be it known that I, THOMAS E. MURRAY, a citizen of the United States, and a resident of the city, county, and State of New York, have invented a new and useful Improvement in Electric Signs, of which the following is a specification.

The invention relates to that class of electric signs in which letters or characters are illuminated by a number of glow-lamps secured upon their faces.

The invention consists in the construction more particularly set forth in the claims.

In the accompanying drawings, Figure 1 is a cross-section of a part of the sheet-metal sign and of the lamp-socket therein with the lamp in place. Fig. 2 is a front view of the socket. Fig. 3 shows a mode of holding the letter in the frame. Fig. 4 is a cross-section on the line xx of Fig. 3. Fig. 5 shows another mode of holding a letter in the frame by suspending it from an eyebolt or hook.

Similar letters of reference indicate like parts.

The sign is to be made up of any suitable letters or characters. Each letter, as represented at A, is preferably to be formed of sheet-metal and provided with circular apertures to receive the lamp-sockets, which are secured thereon. Each socket consists of a cup of insulating material B, having a flange C, by which it is secured on the rear side of the sheet-metal letter. The attachment is by means of headed screws D, which pass through the letter and which receive nuts E. Said nuts are square or hexagonal in shape and are received in similarly-formed recesses in the rear side of the flange C in order to prevent their turning. Within the socket is a metal lining F, adapted to receive the threaded shank of the lamp G, which is screwed into it in the ordinary way. On the bottom of the socket is a contact-plate H, to which one circuit-terminal I is connected, which contact-plate electrically communicates with the lining F. Another contact-plate J, centrally disposed on the bottom of the socket, is connected to the other circuit-terminal K and is secured in place by the screw L. The lamp when in the socket, as shown in Fig. 1, makes contact, respectively, with the plates J and lining F. In order to prevent vibration of

the lamp and assist in retaining it in position, a flexible rubber ring M may encircle it just beyond the projecting part N of the socket, which enters the aperture in the letter-plate.

The letter-plates, thus provided with electric glow-lamps, may be supported on the sign-frame O in various ways. Thus in Fig. 3 the frame is provided with two parallel split tubes P and Q, and the projecting ends of the plate are inserted through the tube-openings, as shown, each letter-plate in turn being introduced at the ends of the tubes and slid along to the desired position; or, as shown in Fig. 5, each letter-plate may be suspended by a ring R from a hook or eyebolt S, attached to a bar T, which may be the upper bar or molding of a frame. The circuit-wires in the latter case may be combined and simply depend from the letter-plate, as indicated.

I claim—

1. The combination in an electric sign of the type herein specified, of a lamp-socket support formed integrally of a thin plate in the shape of a letter or character, a glow-lamp socket having an annular projection entering said opening and a flange, and means for detachably securing said flange to said plate, substantially as described.

2. In an electric sign of the type herein specified, the combination of a letter-plate of metal, a glow-lamp socket of insulating material disposed in and extending through an opening in said plate, a flange on said socket, and means for detachably connecting said flange to said plate, substantially as described.

3. In an electric sign of the type herein specified, the combination of a letter-plate, a glow-lamp socket disposed in an opening in said plate and detachably secured to said plate and having within its recess a threaded lining F, the curved contact-plate H disposed in the bottom of said recess and communicating with said lining, the contact-plate J also disposed in the bottom of said recess and between the arms of said U-shaped contact-plate H, and circuit-terminals connected to said contact-plates, substantially as described.

4. In an electric sign of the type herein specified, the combination with the letter-plate A of the cylindrical lamp-socket H hav-

ing projection N entering an opening in said plate, flange C, contact-plates within said socket and circuit-terminals extending from said contact-plates through the wall of said 5 socket and means for connecting said flange C to said plate, substantially as described.

5. In an electric sign of the type herein specified, the combination with a letter-plate, of a cylindrical glow-lamp socket attached on 10 one side of said plate and having an annular projection extending through said plate, and means for securing said lamp in said socket so that the bulb of said lamp shall be surrounded and supported by said annular pro- 15 jection, substantially as described.

6. In an electric sign of the type herein

specified, the combination with a letter-plate of a cylindrical glow-lamp socket attached on one side of said plate and having a projection extending through said plate, and an annular 20 elastic cushion carried on the protruding end of said projection; the said cushion being constructed and arranged to inclose and support the lamp-bulb, substantially as described. 25

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS E. MURRAY.

Witnesses:

JOS. WILLIAMS,

ADOLPH RASSIGA, Jr.