

(No Model.)

H. F. ROONEY.
INCANDESCENT LIGHT.

No. 534,971.

Patented Feb. 26, 1895.

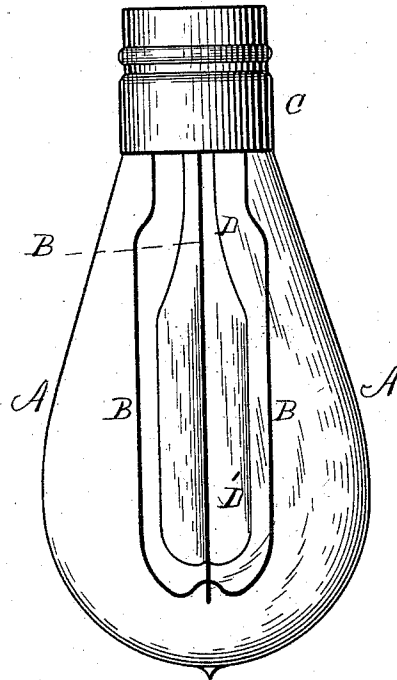


Fig. 1.



Fig. 2.

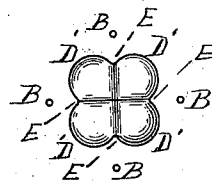


Fig. 3.

WITNESSES

E. A. Woodbury.
A. A. Bonney.

INVENTOR

Henry F. Rooney
By his Atty
Henry Williams

UNITED STATES PATENT OFFICE.

HENRY F. ROONEY, OF RANDOLPH, MASSACHUSETTS.

INCANDESCENT LIGHT.

SPECIFICATION forming part of Letters Patent No. 534,971, dated February 26, 1895.

Application filed November 17, 1894. Serial No. 529,130. (No model.)

To all whom it may concern:

Be it known that I, HENRY F. ROONEY, a citizen of the United States, residing at Randolph, in the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in Incandescent Electric Lamps, of which the following is a specification.

This improvement consists essentially in the arrangement within the lamp or flask of an internal reflector, centrally situated, and with the filament arranged on opposite sides thereof, all substantially as illustrated in the accompanying drawings, in which—

Figure 1 is an elevation of an incandescent lamp provided with my internal reflector. Fig. 2 is an elevation of the reflector removed. Fig. 3 is a plan view of the under side of the reflector showing the arrangement of the filaments with relation thereto.

Similar letters of reference indicate corresponding parts.

A represents the flask of an ordinary incandescent lamp and B filaments which extend down from the socket C. Within the flask and inside the lines of the filaments I place a reflector which consists essentially of the neck D which extends down from the socket, being secured therein in any suitable manner, and the main portion or bulb D'. This reflector may be constructed of glass or other suitable substance, either solid or hollow, and has its portion D' formed into a number of vertical grooves or corrugations E. These grooves correspond in number with the lines of filament extending down into the flask, and the bed or deepest portion of each groove is directly opposite a line of filament. By means of this construction and relative position, the two sides which constitute each groove E form

two reflecting surfaces for the line of filament which is opposite the groove. Thus, in the incandescent lamp shown in the drawings there are four lines of filament and eight reflecting surfaces, two for each line.

By locating my reflector inside the lamp and between the lines of filament, a number of advantages are obtained, over an external reflector. Among them are safety and durability, freedom from danger of clouding, tarnishing or dulling, or becoming coated with foreign substances; and much greater efficiency and power owing to its central location, proximity to the light, the number of its reflecting surfaces, and the fact that each pair of reflectory surfaces is parallel with, and nearly as long as, the line of illuminated filament whose light it reflects.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

The herein described improvement in incandescent lamps, consisting of the combination of the central reflector comprising the neck D and the long substantially pear-shaped main portion D' provided with the longitudinally parallel grooves E made V shaped in cross section and extending throughout the length of said main portion, and the filaments B each line of which is set opposite the center of a groove and follows it longitudinally for its entire length, said lines of filament being set at a suitable distance from the corner or center of the grooves to provide two reflecting surfaces for substantially its entire length, substantially as described.

HENRY F. ROONEY.

Witnesses:

CHAS. H. BELCHER,
COLIN BOYD.