Oct. 11, 1932. G. S. JAMES 1,881,619

GASEOUS CONDUCTION LAMP

Filed Aug. 17, 1928

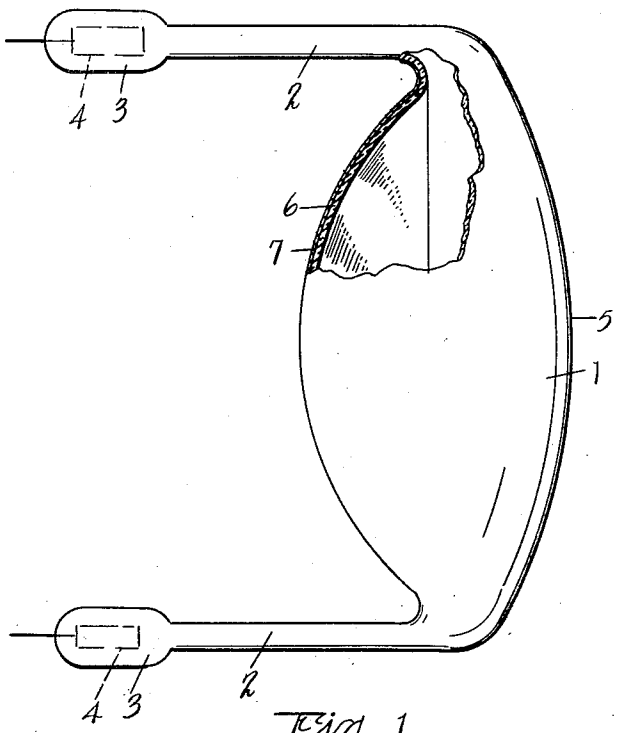


Fig. 1

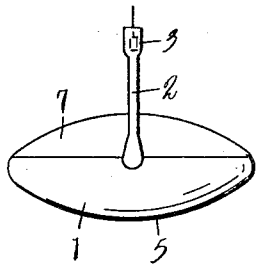


Fig. 2

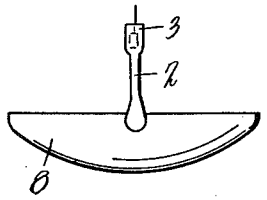


Fig. 3

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UNITED STATES PATENT OFFICE

GEORGE S. JAMES, OF LONG ISLAND, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS, TO JAMES NEON DOUBLE ELECTRODE CORPORATION, OF CHICAGO, ILLINOIS, A CORPORATION OF DELAWARE

GASEOUS CONDUCTION LAMP

Application filed August 17, 1928. Serial No. 300,332.

The main object of this invention is to provide an improved gaseous conduction lamp which is highly efficient, and novel and attractive in appearance.

Objects pertaining to details and economies of my invention will appear from the description to follow. The invention is defined in the claims.

A structure which embodies the features of my invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a side view of my improved lamp with portions sectioned and broken away to illustrate structural details.

Fig. 2 is a side view looking from the top or bottom of the lamp as presented in Fig. 1.

Fig. 3 is a side view corresponding to that of Fig. 2 modified in the matter of shape.

In the embodiment illustrated in Figs. 1 and 2 the container for the gas, such as neon, helium, argon and the like, consists of an enlarged body portion 1 and tubular portions 2 opening through the opposite sides. These tubular portions terminate in electrode chamber enlargements 3.

The electrodes shown conventionally at 4 are enclosed within these chambers 3. The enlarged portion 1 is of general circular outline and has a spherically curved front wall 5 and a spherically curved or concave rear wall 6. This rear wall is provided with a reflector 7 so that the light is not permitted to pass through this rear wall and is reflected forwardly.

In the modification shown in Fig. 3 the rear wall of the enlarged portion 8 of the container is flat.

These lamps are well adapted for illuminating purposes where a relatively large volume of light is desired from a single source.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A gaseous conduction lamp comprising a container having tubular end portions terminating in electrode chambers, and an intermediate circular enlargement with which said tubular end portions are connected, said enlargement having a concave rear wall provided with a reflector.

2. A gaseous conduction lamp comprising a container having tubular end portions terminating in electrode chambers, and an intermediate circular enlargement with which said tubular end portions are connected.

3. A gaseous conduction lamp comprising a container having tubular end portions terminating in electrode chambers, and an intermediate substantially hemispherical enlargement with which said tubular end portions are connected.

In witness whereof I have hereunto set my hand.

GEORGE S. JAMES.