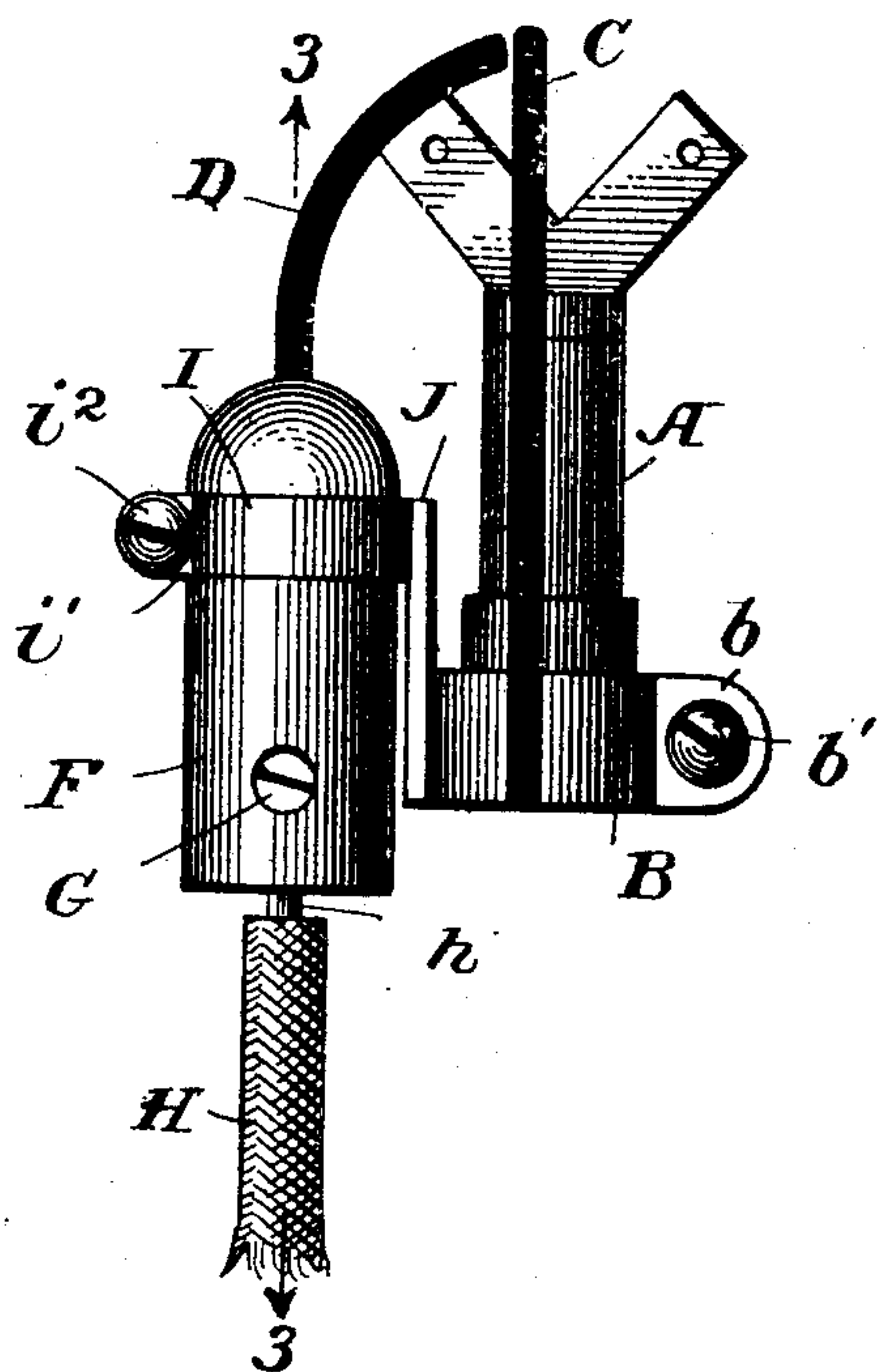


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ELECTRICAL GAS LIGHTING DEVICE.  
APPLICATION FILED DEC. 18, 1909.

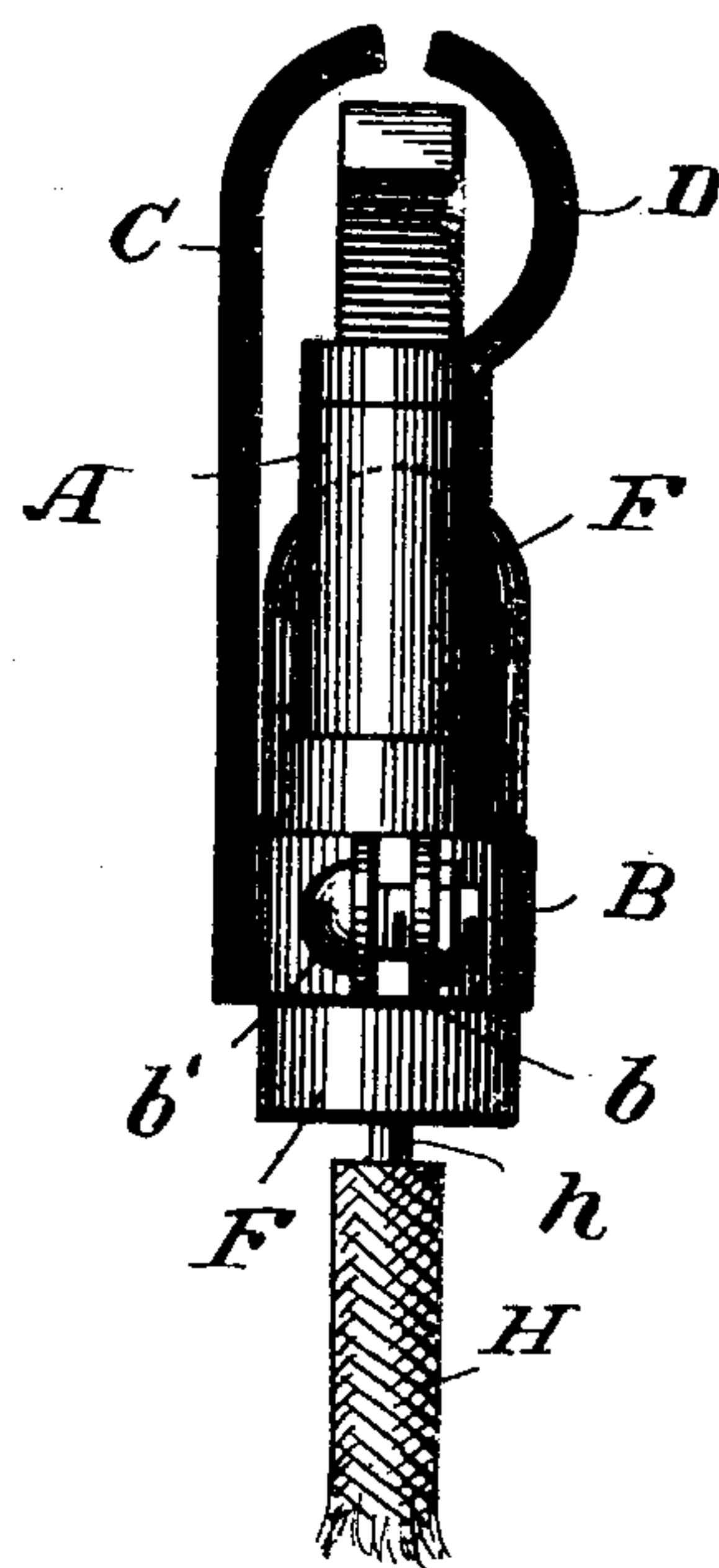
966,690.

Patented Aug. 9, 1910.

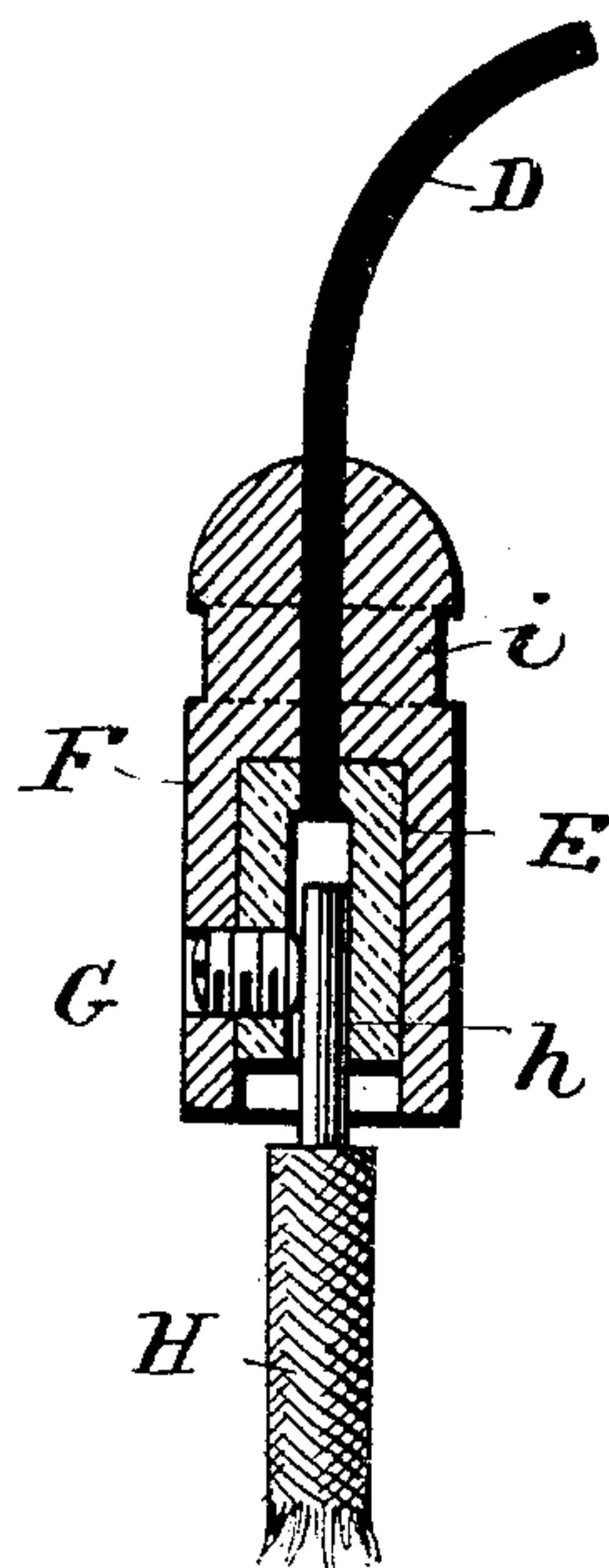
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses  
*J. J. Stinkel*  
*E. B. Hanson*

Inventor  
*E. R. Joseph*  
by his Attorneys  
*Baldern Wright*

# UNITED STATES PATENT OFFICE.

EDWARD R. JOSEPH, OF ELKHART, INDIANA.

ELECTRICAL GAS-LIGHTING DEVICE.

966,690.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed December 18, 1909. Serial No. 533,836.

*To all whom it may concern:*

Be it known that I, EDWARD R. JOSEPH, a citizen of the United States, residing in Elkhart, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Electrical Gas-Lighting Devices, of which the following is a specification.

The object of my invention is to provide a novel gas lighting device which may be readily applied to gas burners of various types and easily connected with electrical generators already installed or specially provided.

In carrying out my invention, I provide two contact arms between which a spark may pass, and one of these arms I attach to a support which may be readily applied to a gas burner of any well known kind. The other contact arm is carried by a holder made of insulating material which is attached to a bracket projecting from the support above mentioned. The holder is made hollow and contains a hollow metallic base-piece, to which the contact last mentioned is secured and which is held in the holder by a set screw, which also serves to clamp the end of the line wire in the base-piece.

In the accompanying drawings:—Figure 1 shows a front elevation of an electrical gas lighting device embodying my improvements. Fig. 2 shows a side elevation thereof. Fig. 3 shows a vertical central section on the line 3—3 of Fig. 1.

My improvements are especially intended to be used in connection with the gas lamps of automobiles, but they are not so limited as they may be applied to gas burners of various kinds. It will be understood that my improvements are to be used in connection with an electric circuit including an induction coil for producing a spark and that the burner itself may be connected with one end of the coil and that one of the contacts may be connected by wire with the other end thereof.

In the drawings, A indicates a gas burner of well known construction; B indicates a support for the contact arm C. This support is shown as being in the form of a split ring, having ears *b* connected by a screw *b'* by means of which the support or ring may be clamped on the burner A. The contact arm C extends up to the top of the burner, terminating at a proper point to

cause the spark to jump across the top thereof to ignite the gas. The other contact arm D has its upper or outer end arranged a suitable distance from the end of the contact arm C, while its lower end is attached to a metallic base-piece E which is made hollow, as shown in Fig. 3. This base-piece is arranged within the hollow portion of the contact holder F, through the upper portion of which the contact arm D extends. The base-piece E is secured to the holder F by means of a set screw G which extends into the hollow portion of the base-piece, as shown in Fig. 3, and serves to connect the base-piece to the holder and also to clamp the bared end *h* of the line wire H to the base-piece which is made of metal, and therefore a firm electrical connection is made between the end of the line wire and the base-piece, and consequently with the contact arm D. An annular groove *i* is formed around the upper portion of the holder F and this receives a split ring I, having ears *i'*, connected by a set screw *i''* by means of which the ring may be clamped to the holder F. This ring is connected by an arm J with the support or ring B, as shown. The ring I and arm J constitute a bracket for supporting the holder F from the support B.

These devices are very simple and may be easily applied to any usual form of gas burners, and may be readily attached to the line wire without disturbing the relative position of the two contact arms, and when thus applied there is no danger of leakage and as the parts are extremely simple the operation of the device may be always relied upon.

I claim as my invention:—

1. An electric lighting device for gas burners, comprising a contact arm, a support to which it is attached and which is adapted to be applied to a gas burner, another contact arm, a hollow metallic base piece to which it is secured, a hollow holder of insulating material within which the base piece is mounted, a bracket connecting the holder with the contact support first mentioned, a line wire having a bared end inserted within the hollow metallic base piece, and means for detachably securing said metallic base piece within the holder and for attaching the line wire to said base piece.

2. An electrical lighting device for gas burners, comprising a contact arm, a split



ring to which it is attached, means for  
clamping the split ring to the gas burner,  
a bracket extending from the split ring,  
another contact arm, a hollow metallic base-  
5 piece to which it is attached, a hollow holder  
of insulating material within which the  
base-piece is arranged, and a set screw for  
attaching the base-piece to the support and  
for securing the line wire in place.  
10 3. An electrical lighting attachment for  
gas burners, comprising a contact arm, a  
split ring to which it is attached, means for  
clamping the split ring to the gas burner,  
a hollow holder of insulating material, a

split ring secured thereto and connected to 15  
the first-mentioned split ring, a base-piece  
attached to one of the contact arms and  
arranged within the hollow holder, and a  
set screw for securing the base-piece in the  
holder and for attaching the line wire 20  
thereto.

In testimony whereof, I have hereunto  
subscribed my name.

EDWARD R. JOSEPH.

Witnesses:

SILAS H. JOSEPH,  
BESSIE B. DIENER.