

(No Model.)

W. N. JASKEY & E. S. ELSE.  
AUTOMATIC ELECTRIC GAS LIGHTER.

No. 541,549.

Patented June 25, 1895.

Fig. 1.

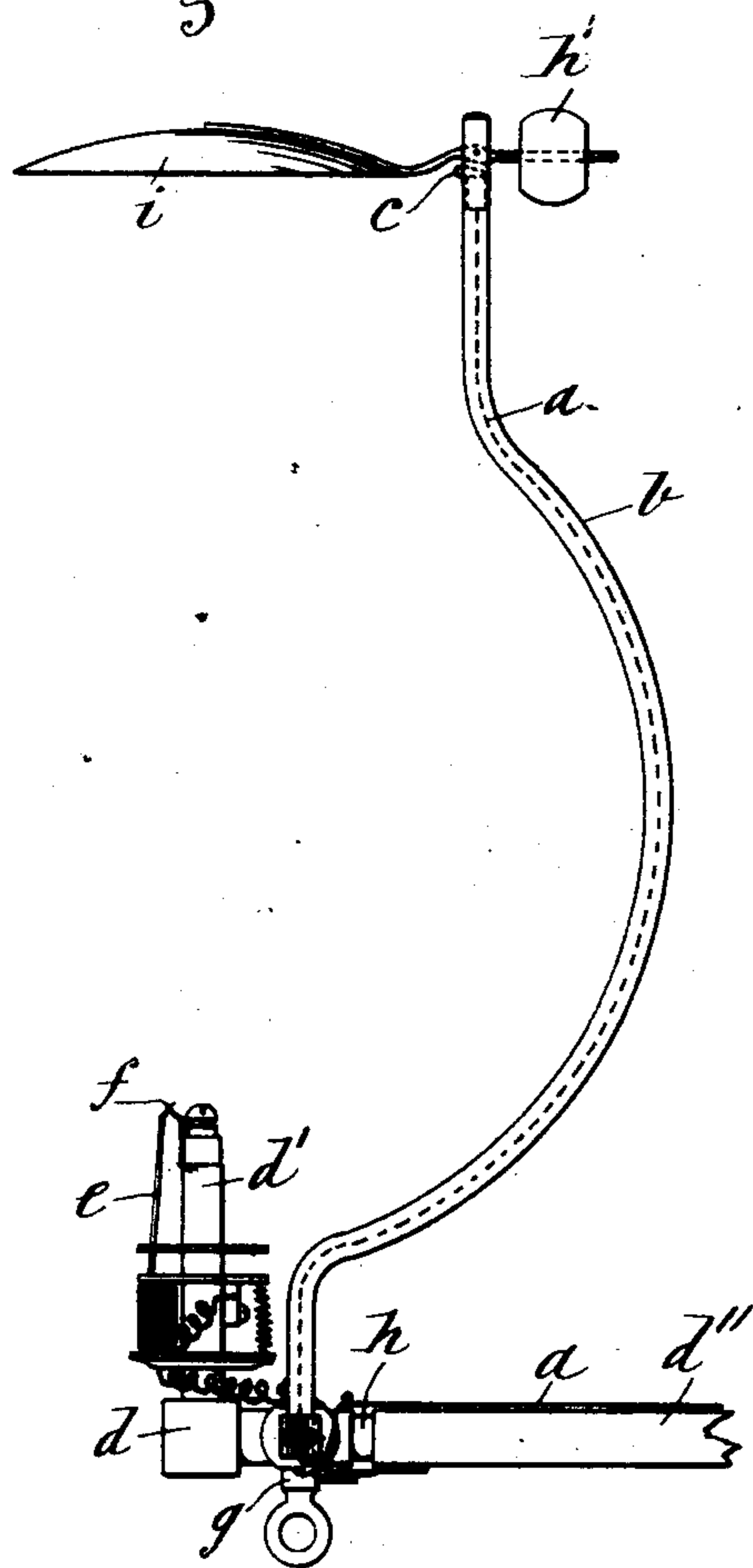
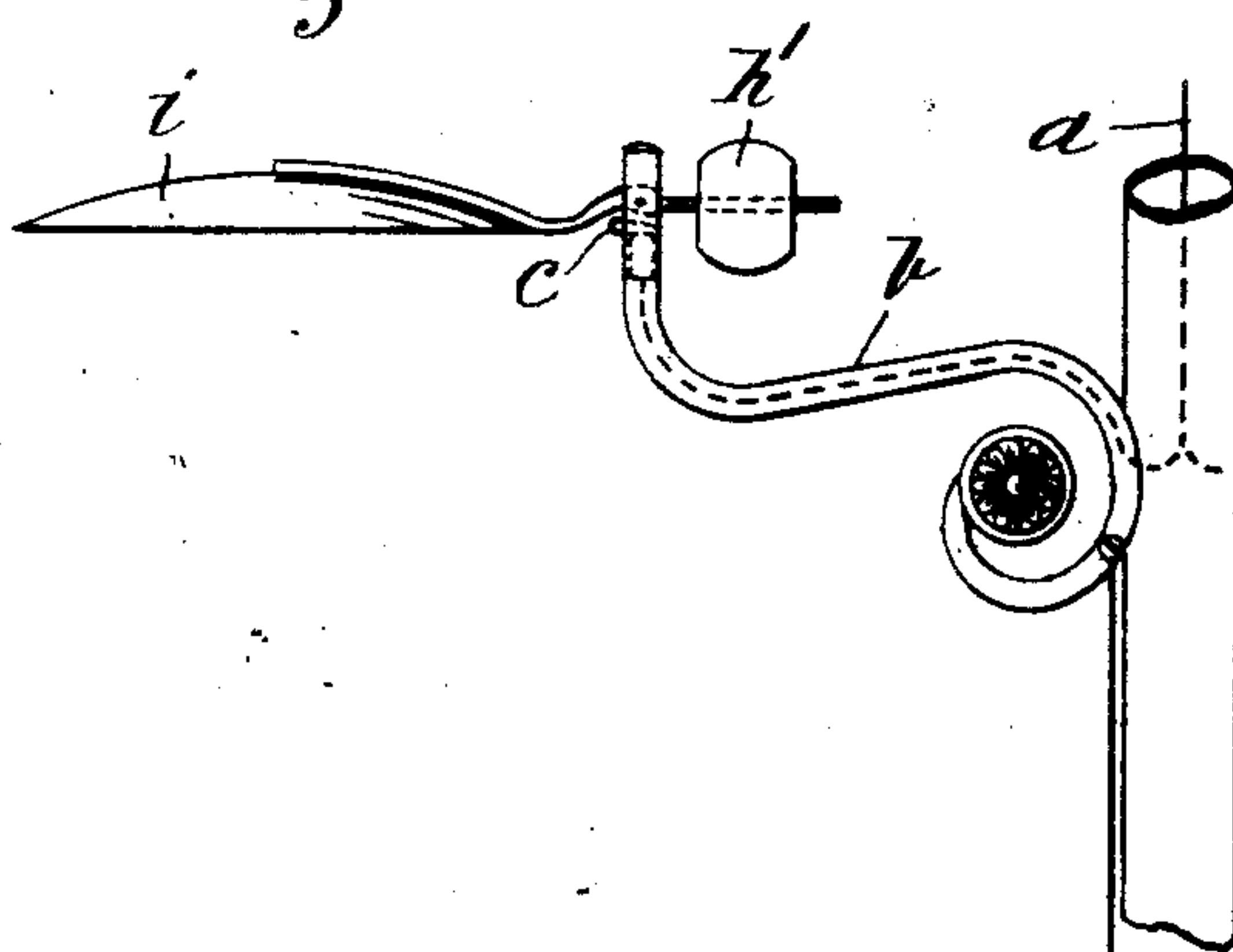


Fig. 2.



Witnesses.

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# UNITED STATES PATENT OFFICE.

WILLIAM NEELY JASKEY AND EDWARD SAMUEL ELSE, OF LOGAN, UTAH TERRITORY.

## AUTOMATIC ELECTRIC GAS-LIGHTER.

SPECIFICATION forming part of Letters Patent No. 541,549, dated June 25, 1895.

Application filed August 20, 1894. Serial No. 520,864. (No model.)

*To all whom it may concern:*

Be it known that we, WILLIAM NEELY JASKEY and EDWARD SAMUEL ELSE, citizens of the United States, residing at Logan, in Cache county, Utah Territory, have invented new and useful Improvements in Automatic Electrical Gas-Lighters, of which the following is a specification.

Our invention relates to improvements in automatic electrical gas lighters. We attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the arm of a gas bracket or pendant fitted up with our apparatus. Fig. 2 is an alternate view of fitting the fan to a pendent stem.

Parts of the figures are broken off for want of space.

Our invention consists of an automatic electrical gas lighter, having one wire from battery connected on gas pipe at the meter and the other wire *a* connected to a spark coil and running along elbow *d* and extending through the fan support *b* but insulated from *b* and making a connection with fan at *c*. From fan the electrical current runs along the fan support *b* which is insulated from fixture *d* and then through the magnet *e* making a connection with the main elbow *d* at burner holder *d'*. When current runs through magnet it causes the arm *f* to vibrate making spark to light gas. The support of arm *f* is insulated from the burner holder *d'*. The elbow cock at *g* has an insulated bushing *h* breaking the current on the arm *d''*. The cock *g* has a projection extending therefrom and making the connection with the projection on the elbow *d*; also a projection from the arm *d''* extending over the insulated bushing *h*. By turning gas on the projection, from the cock *g* connects with the projecting arm *f* on burner holder *d'* mak-

ing a complete current. When the gas is turned off the current is broken. When the gas is lighted the heat of the flame raises the fan, breaking the current at *c*. When gas is blown out the fan *i* falls making complete connection at *c* and lighting gas. The fan *i* has a screw weight *h'* connected on one end to regulate the pressure and make the fan balance, or nearly so, in order that the flame may raise the fan for breaking the connection at *c*. The connection at *c* and *f* are made of platinum.

It will be understood that the foregoing is given by way of illustration, and that the shapes, materials and proportions of the parts may be varied in many ways within the scope of our invention.

What we claim, and desire to secure by Letters Patent of the United States, is—

1. In an automatic electrical gas lighter the combination of a burner, a fan support extending above the burner, a fan pivoted to the support and electrical contacts also mounted on the fan support arranged to be actuated by the movement of the fan.

2. In an automatic electrical gas lighter the combination of a fan pivoted to the support and electrical contacts also mounted on the fan support arranged to be balanced by the screw weight running on the screwed pin attached to the fan.

WILLIAM NEELY JASKEY.

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