

No. 615,626.

Patented Dec. 6, 1898.

J. MOELLER.  
INCANDESCENT GAS LAMP.

(Application filed May 16, 1896.)

(No Model.)

Fig. 2.

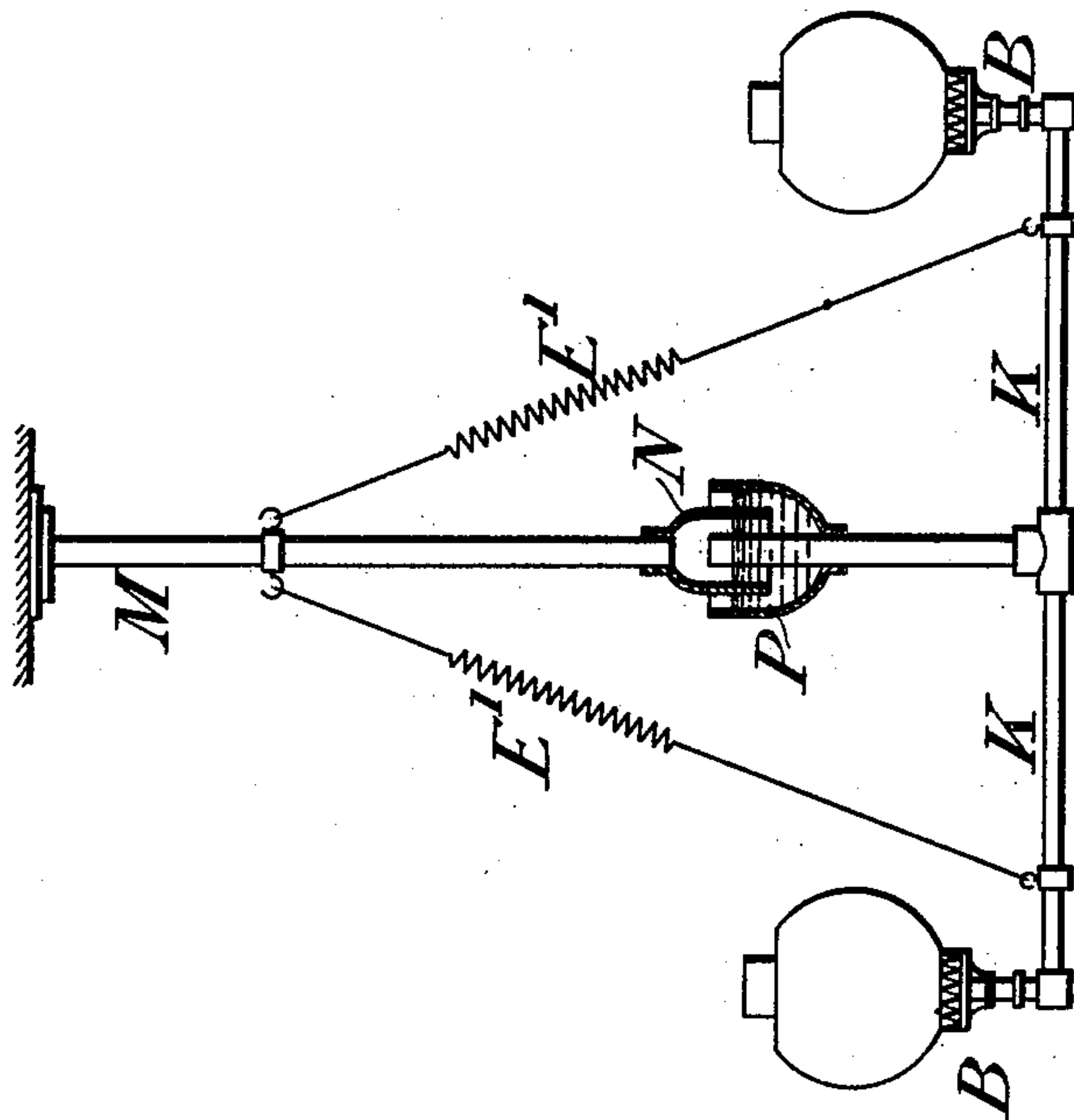
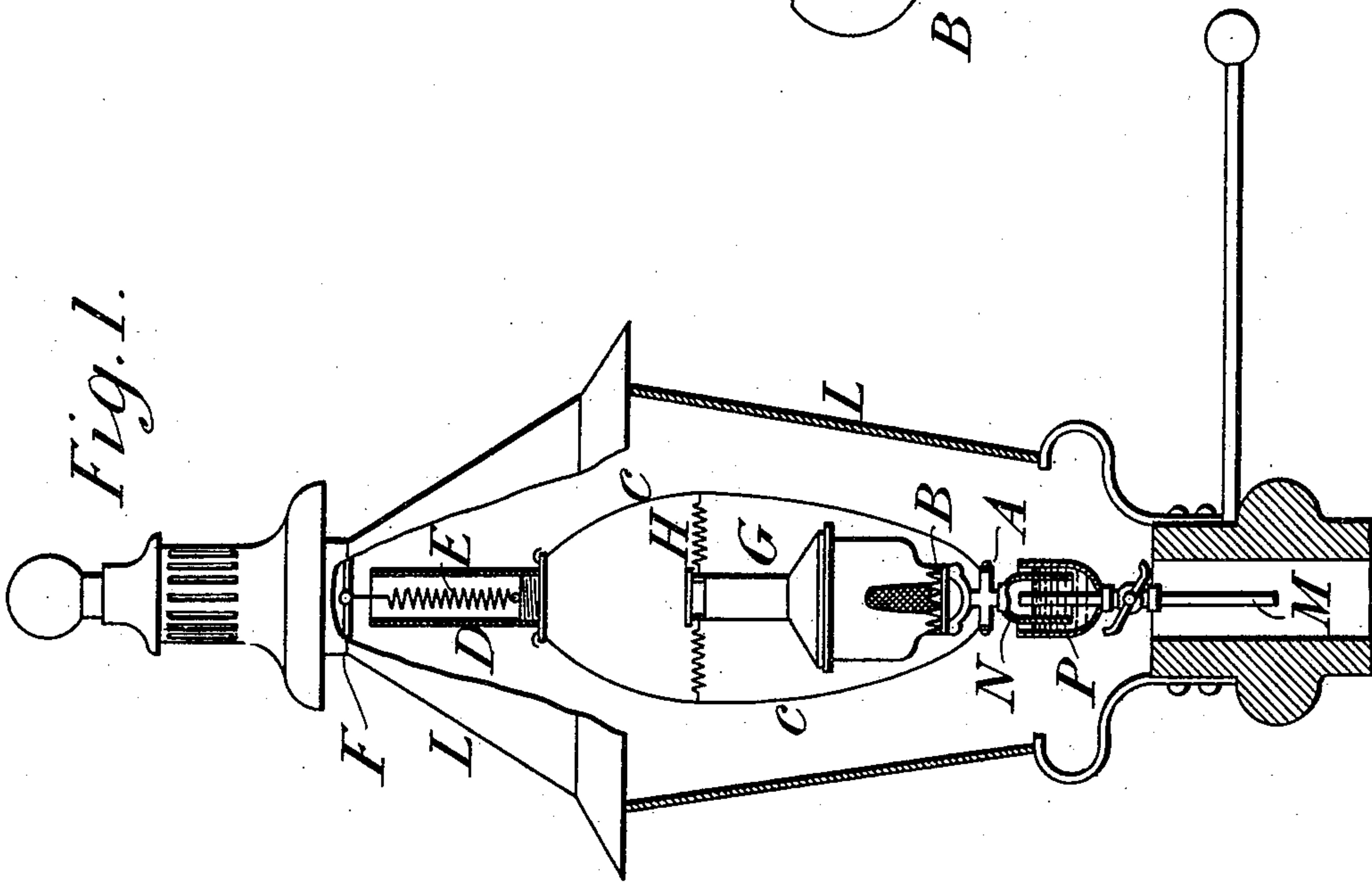


Fig. 1.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## INCANDESCENT GAS-LAMP.

SPECIFICATION forming part of Letters Patent No. 615,626, dated December 6, 1898.

Application filed May 16, 1896. Serial No. 591,767. (No model.)

*To all whom it may concern:*

Be it known that I, JULIUS MOELLER, a citizen of England, residing at 14 Palmer street, Westminster, London, England, have invented certain new and useful Improvements in Incandescent Gas-Lamps, of which the following is a specification.

My invention relates to means of mounting incandescent gas-burners in such a manner as to provide against shaking or vibration, such as might cause damage to the incandescent mantle, which is very fragile, as I shall describe, referring to the accompanying drawings.

Figure 1 shows in elevation, partly sectional, the mounting of an incandescent burner in a street-lantern which may be subject to shocks and vibration resulting from traffic. Fig. 2 shows in elevation, also partly sectional, the mounting of a chandelier carrying two or more incandescent gas-burners and suspended from a ceiling subject to shock or vibration from movements on the floor above.

As shown in Fig. 1, a cross-piece or disk A, on which the burner B is carried, is suspended by bent wires C, attached to the bottom of a tube D, which is suspended by a light extensible spring E from a cross-piece or wires F, fixed in the upper part of the lantern-frame L. The tube D, inclosing the spring E, serves to protect it against overheating or injury by the hot products of combustion passing upward, and therefore it is preferably made of glass, ceramic, or other material which is a bad conductor of heat.

When there is a chimney G, such as is shown, exceeding in height or weight an ordinary glass, I prefer to steady it by connecting its upper part by light extensible springs H to the suspending-wires C. I suspend, as shown in Fig. 2, the arms K of a chandelier by light extensible springs E' from the gas-pipe M, which projects down from the ceiling.

When springs are used as above described, it is necessary to connect the pipe of the burner B, which is carried by the spring or springs, to the fixed pipe M by a connection

which will admit of their relative play. For this purpose the one section of the pipe is made to terminate with a bell N and the other section with a cup P, which is larger than the bell and is charged with suitable liquid, such as oil or glycerin or water with oil floating on it. The bell N being partly immersed in the liquid contained in the cup P, there is thus constituted a junction sealed by liquid against escape of gas, but admitting of relative play of the two sections of pipe both horizontally and vertically.

Having thus described the nature of this invention and the best means I know of carrying the same into practical effect, I claim—

1. In an incandescent gas-burner, the combination with a burner-pipe having an elastic spring supporting the same, of a gas-supply pipe having a connection with the burner-pipe, said connection consisting of a cup containing liquid and carried by one pipe, and a bell carried by the other pipe and dipping into the liquid; substantially as described.

2. In an incandescent gas-chandelier, the combination with the gas-supply pipe, of springs secured thereto and supporting the arms of the chandelier, said arms being connected to the burner-pipe, and a bell-and-cup connection between the burner-pipe and the supply-pipe the cup being arranged to receive a liquid seal; substantially as described.

3. In an incandescent gas-chandelier, the combination with the gas-supply pipe, of springs secured thereto and supporting the arms of the chandelier, said arms being connected to the burner-pipe, a cup surrounding the vertical burner-pipe and containing liquid, and a bell upon the supply-pipe dipping into said liquid; substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 1st day of May, A. D. 1896.

JULIUS MOELLER.

Witnesses:

GEO. K. FITCH,  
OLIVER IMRAY.