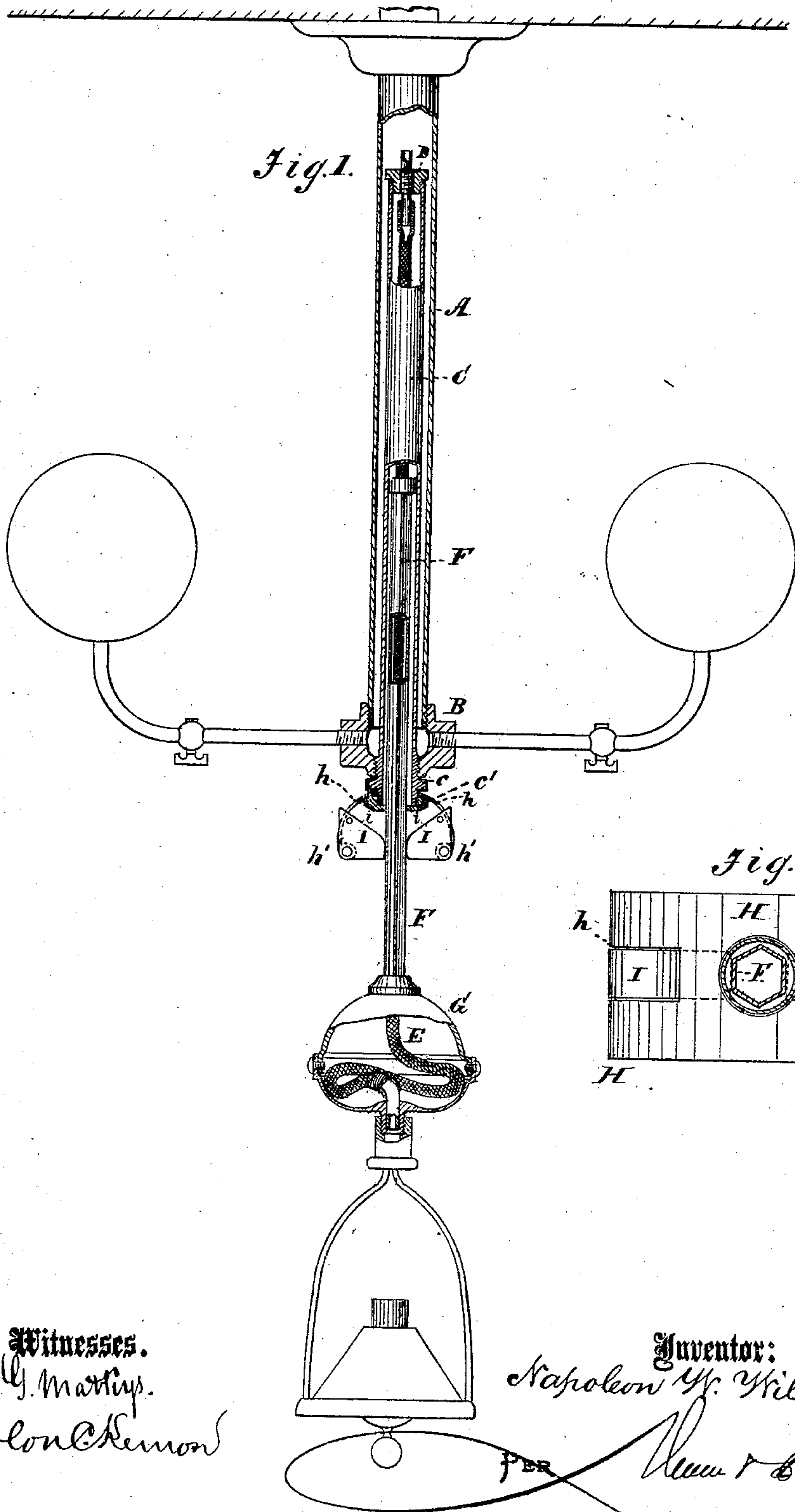


N. W. WILLIAMES.

Drop-Lights for Chandeliers.

No. 140,565.

Patented July 1, 1873.



Witnesses.
G. Matting.
Solon C. Remond

Inventor:
Napoleon W. Williams
PER *[Signature]*
Attorneys.

UNITED STATES PATENT OFFICE.

NAPOLEON W. WILLIAMES, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR
TO WILLIAM C. BAKER, OF SAME PLACE.

IMPROVEMENT IN DROP-LIGHTS FOR CHANDELIERS.

Specification forming part of Letters Patent No. **140,565**, dated July 1, 1873; application filed
April 3, 1873.

To all whom it may concern:

Be it known that I, NAPOLEON W. WILLIAMES, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Drop-Light Attachment for Chandeliers; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification.

The invention consists in applying a curved plate-spring to the clamp-dogs, whose friction holds the slide-tube at the height required, so that a yielding resistance will be assured and the wear on dogs automatically taken up. It also consists in providing plane contact surfaces on the dogs in that portion which bears upon the slide-tube.

Figure is a side elevation, partly sectional and partly broken away, and Fig. 2 is a plan view of the plate-spring, in which the clamping-dogs are held with a yielding pressure.

In the drawing, A represents the ordinary gas-pipe that supplies chandeliers, and B the chamber from which gas is distributed to the surrounding burners. C is a tube passing up into the gas-pipe A, and D a nut that screws on nozzle of rubber tube E and holds the latter fixedly to the former, so that it will receive

a supply of gas from the pipe A. F is a tube that slides over the rubber pipe, which becomes visible when the drop-light is used, and is provided at its base with the globular chamber G, in which the rubber pipe is coiled when the drop-light is carried up and not in use. H is a curved spring apertured in the middle and fastened between two collars, *c c'*. It has an elongated slot, *h*, and two eyes, *h' h'*, at each end, in which are pivoted the clamping or cam-dogs I I. The cams I I have their holding-surface *i i* made straight or with plane faces, so that, as soon as they are turned thereto, they form rectilinear guides for the slide-tube and cause it to move and hang perpendicularly.

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

1. A friction-clamp to hold sliding tube F, consisting of a curved plate-spring having a dog pivoted in each end thereof, as and for the purpose described.

2. The dogs that act upon the slide F, made with plane faces *h h*, as and for the purpose set forth.

N. W. WILLIAMES.

Witnesses:

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