

No. 669,228.

Patented Mar. 5, 1901.

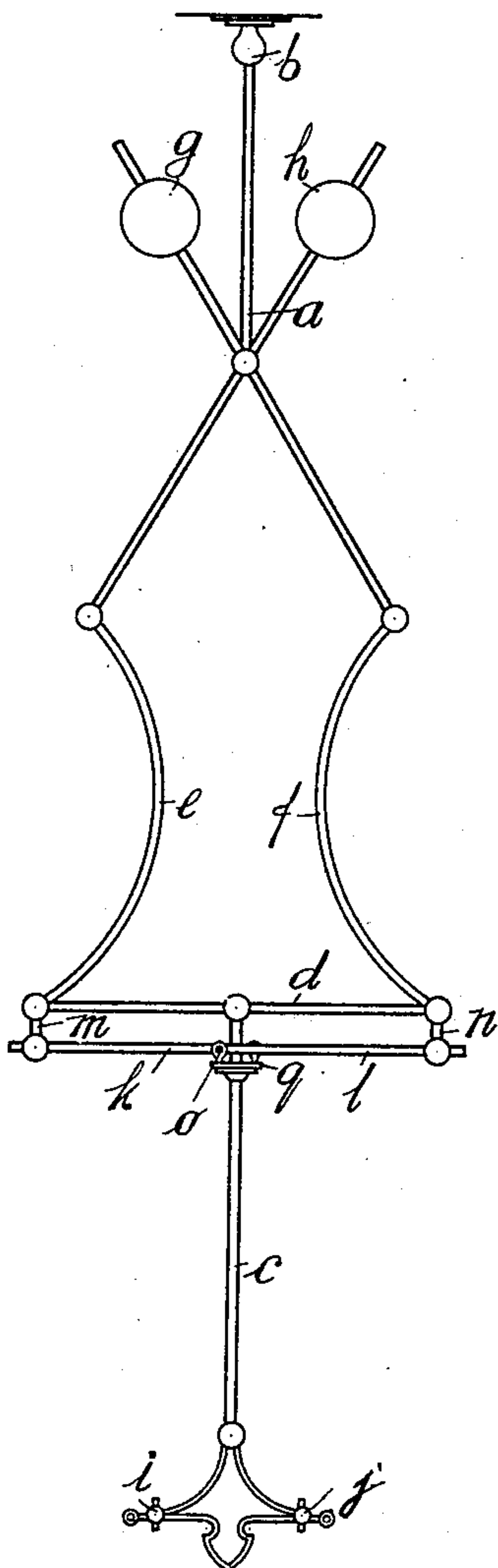
R. H. BEST.

PENDENT LAMP.

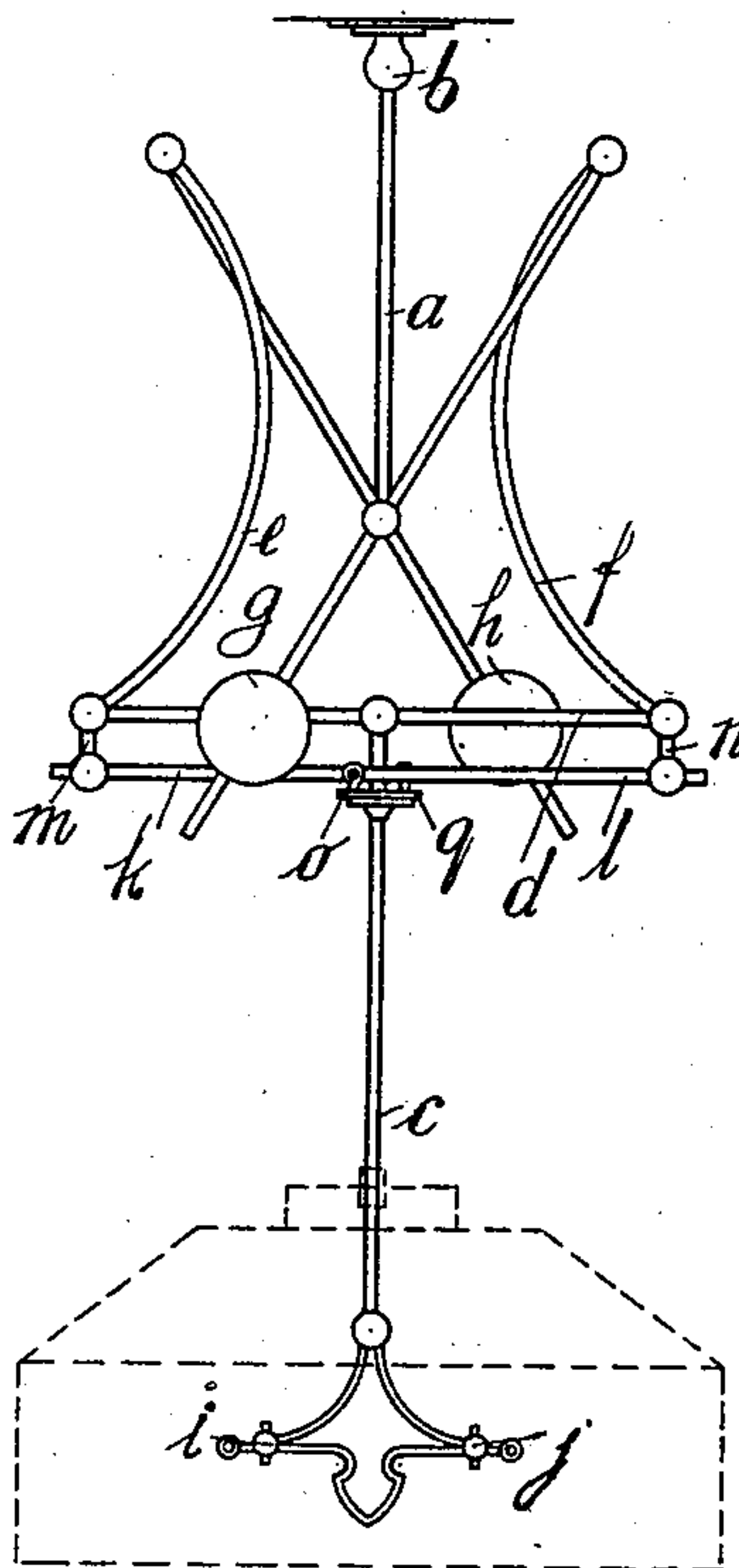
(Application filed Nov. 6, 1900.)

(No Model.)

2 Sheets—Sheet 1.



— FIG. 1 —



— FIG. 2 —

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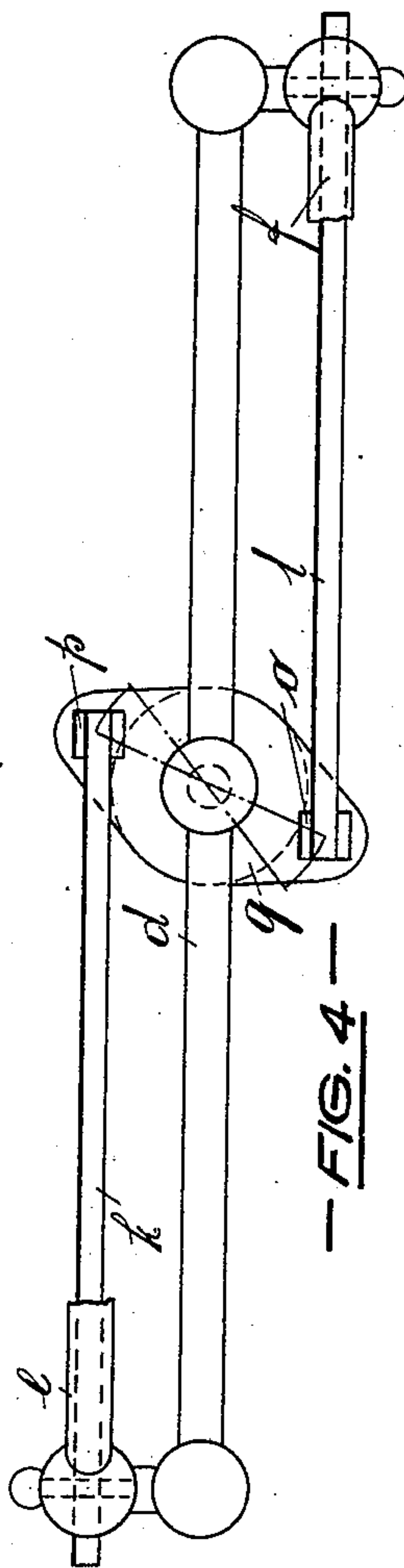
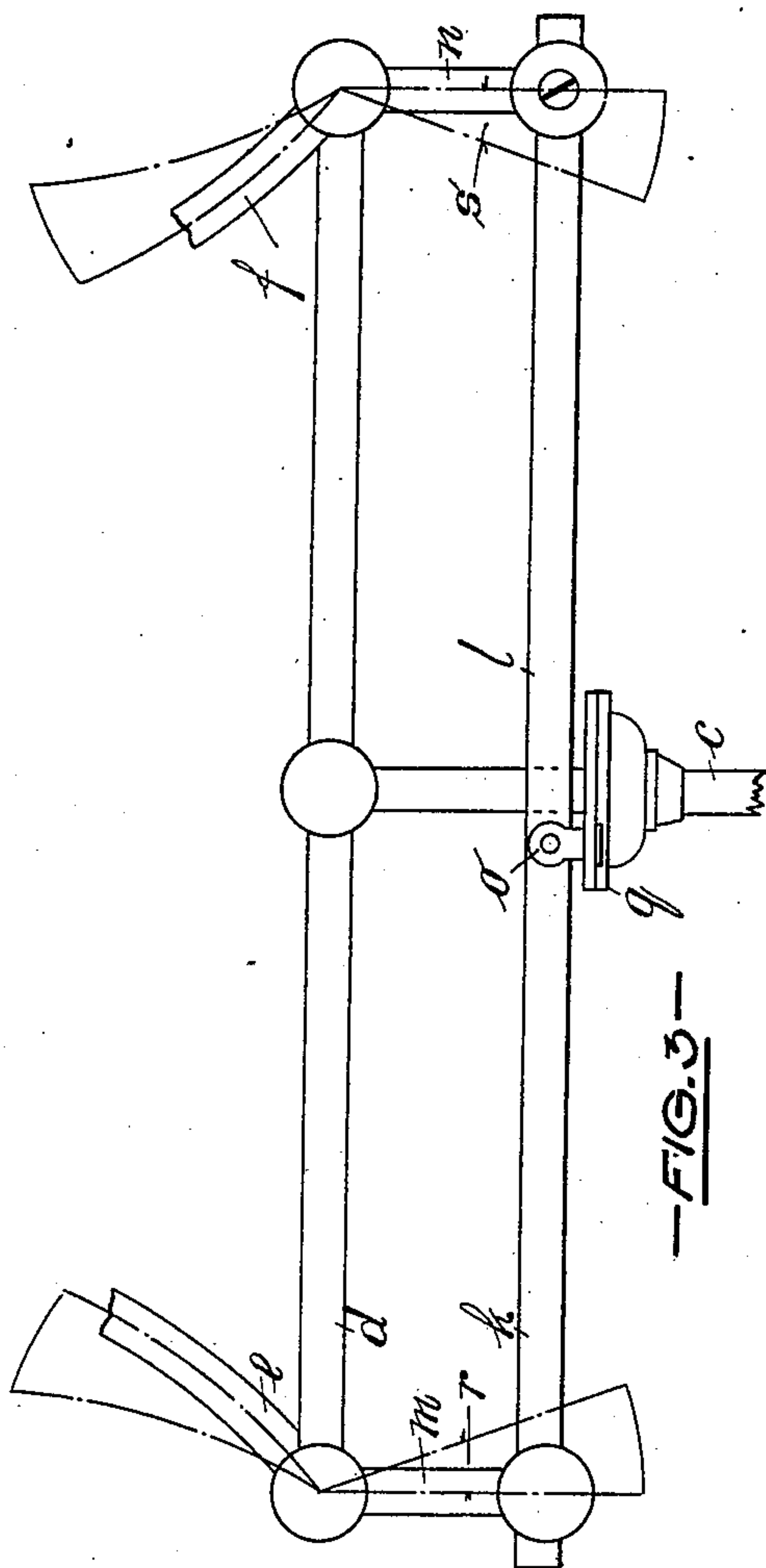
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UNITED STATES PATENT OFFICE.

ROBERT HALL BEST, OF HANDSWORTH, ENGLAND.

PENDENT LAMP.

SPECIFICATION forming part of Letters Patent No. 669,228, dated March 5, 1901.

Application filed November 6, 1900. Serial No. 35,602. (No model.)

To all whom it may concern:

Be it known that I, ROBERT HALL BEST, a subject of the Queen of Great Britain and Ireland, and a resident of Cambray Works, Handsworth, in the county of Stafford, England, have invented certain new and useful Improvements in Pendent Lamps, (for which I have filed applications for patent in Great Britain, No. 6,676, bearing date the 10th of April, 1900, and in Germany, bearing date the 8th of October, 1900,) of which the following is a specification.

This invention consists of improvements relating to pendent gas and other lamps of the type in which an adjustable centrally-disposed center light or shade or reflector lamp having one or more burners is employed.

The object of my invention is to construct such lamps of convenient form and effective appearance and to provide in a simple manner for the ready adjustment of the center light to the desired level (within the limits of its movement) in a direct vertical line and for its proper balance at any such level or position without the use of a water-slide, stuffing-box, or like ordinary device.

On the accompanying sheets of explanatory drawings, (two in number,) to be hereinafter referred to, Figure 1 is an elevation representing a pendent gas-lamp constructed in accordance with my invention when adjusted to its lowest position. Fig. 2 is a similar view to Fig. 1, but with the lamp shown at its highest position within the range of adjustment. The ordinary shade and reflector parts which inclose the burners are omitted from Fig. 1, but are represented by dotted lines at Fig. 2. Fig. 3 is an elevation, and Fig. 4 a plan, showing, to a larger scale, the means that I employ to insure the synchronous movement of the parts on adjustment, so that the lamp shall always hang centrally with the main suspension-stem.

The same reference-letters in the different views indicate the same parts.

The main suspension-stem *a* depends from a ceiling socket connection *b* in the ordinary manner. The lamp-stem *c* depends from the center of a horizontal tube *d*, which is connected by a pair of jointed arms *e* and *f* with the respective counterweighted balance-le-

vers *g* and *h*, which are together pivoted at the lower end of the stem *a*, as shown. The gas admitted to the stem *a* passes through one or both of the said balance-levers and jointed arms to the horizontal tube *d* and from thence flows through the stem *c* to the burners, as *i* and *j*. The balance-levers *g* and *h* are so counterweighted as to sustain the burners and their appendages in any position within the limits indicated by Figs. 1 and 2, respectively.

To insure the synchronous movement of the aforesaid parts on adjustment, so that the lamp-stem *c* shall always hang centrally with the main stem *a*, I employ a pair of stay or positioning links, as *k* and *l*. The outer ends of such links are jointed to extensions *m* and *n* from the lower ends of the arms *e* and *f*, respectively, while the inner ends of the links are jointed to pins *o* and *p*, respectively, the said pins being rotatable within apertures formed in a plate *q*, which is itself rotatable about the stem *c*. During the movement of the lamp from the position shown at Fig. 1 to that shown at Fig. 2, or vice versa, the aforesaid extensions *m* and *n* reciprocate through an angle *r* and *s*, respectively, and because of their connection by the links *k* and *l* and the rotatable plate *q*, as aforesaid, the movements of the extensions are synchronous and uniform, and the parallelism of the horizontal member *d* is thereby maintained with the stem *c* depending in a vertical line therefrom to whatever level or position the lamp may be adjusted. The range of the reciprocatory angular movement of the plate *q* is indicated by dotted lines at Fig. 4.

Instead of arranging the positioning-links on extensions below the lower joints of the arms *e* and *f*, as hereinbefore described, I sometimes connect the links to the said arms above their lower joints, and in that case I am enabled to dispense with the extensions *m* and *n*; but the plate *q* is then mounted on an extension of the stem *c* above the horizontal member *d*.

I apply my invention to the construction of pendent lamps of varying designs to meet the requirements of the varying services for which they are employed.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. In pendent lamps, the combination with
 5 a central stem depending from a cross member supported by vertically-adjustable suspension-arms, of links respectively jointed at their outer ends to the said suspension-arms and at their inner ends with the opposite sides of a plate supported by but rotatable upon
 10 the said central stem, substantially as described.

2. In pendent lamps, the combination consisting of a central stem depending from a cross member jointed to the lower ends of
 15 suspension-arms, links connecting the said arms to a plate supported by but rotatable upon the said central stem, and counterweighted balance-levers respectively jointed

with the upper ends of the arms, substantially as described. 20

3. In combination, a central lamp-stem, a supporting cross member, suspension-arms, connecting-links between the said arms and a rotatable piece upon the said stem, counterweighted levers respectively jointed to the
 25 arms, and a main suspension-stem, the said levers being together pivoted at the lower end of the said main stem, substantially as described.

In witness whereof I have hereunto set my
 hand in presence of two witnesses. 30

ROBERT HALL BEST.

Witnesses:

HUME CHANCELLOR PINSENT,
 HERBERT BOWKETT.