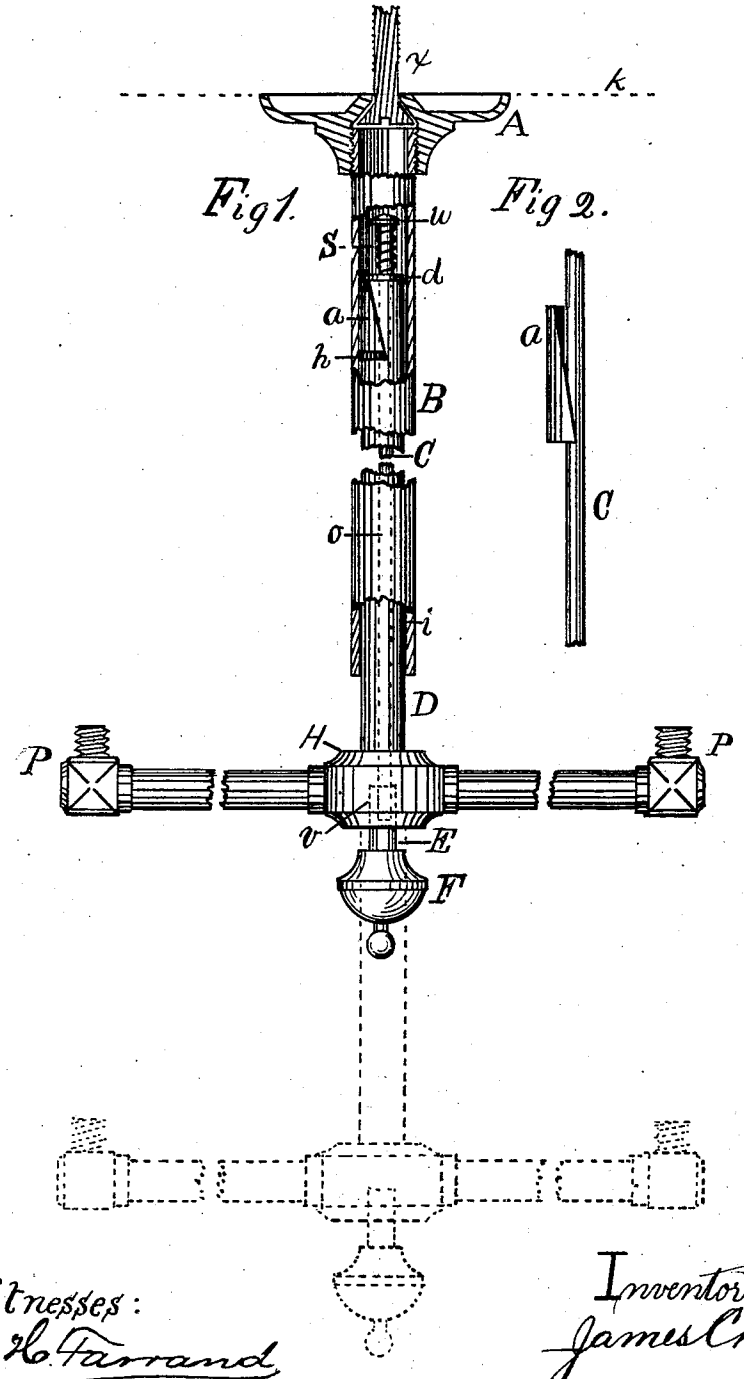
(No Model.)

J. CHASE.

Chandelier.

No. 243,060. Patented June 21, 1881.



Witnesses:
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P. B. Tiele

Inventor:
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UNITED STATES PATENT OFFICE.

JAMES CHASE, OF ROCHESTER, NEW YORK.

CHANDELIER.

SPECIFICATION forming part of Letters Patent No. 243,060, dated June 21, 1881.

Application filed February 2, 1881. (No model.)

To all whom it may concern:

Be it known that I, JAMES CHASE, of Rochester, Monroe county, New York, have invented certain Improvements in Vertically-Adjustable Chandeliers, of which the following is a specification.

The object of my invention is to provide vertically-adjustable chandeliers with a means of suspension cheap and efficient, and with greater safety and durability than others now in use. Its nature consists in automatically locking chandeliers with a device which is self-releasing while they are being raised, and which shall securely hold in any desired adjustment any weight that the chandeliers are capable of sustaining.

Figure 1 is a sectional elevation of my invention. Fig. 2 is a detached elevation of the locking-slide *a* and section of rod C.

A represents in cross-section a rosette provided with a threaded socket to receive the pipe B, and also an opening to receive the screw *x*, by which the said rosette may be securely attached to the ceiling above. The pipe B is preferably made to screw into the said rosette, when it likewise becomes fixed in position. The inner pipe, D, is made to slide freely within the outer pipe, B, while the latter may be lined at its lower end with any suitable material to prevent marring the outer surface of the inner pipe as it is moved up and down. A portion of the outer pipe is shown broken away to expose the upper end of the pipe D and the device for locking the latter to the outer pipe at any point desired. Said device is constructed as follows: At or near the upper end of the pipe D, and forming an integral part thereof, is an inclined plane, which is preferably formed by cutting away from the pipe a wedge-shape piece, which increases in size from its upper end, and rigidly attaching, by means of solder or otherwise, either the piece thus taken out or any suitable lug to the vertical rod C, as more clearly shown in Fig. 2. Upon the upper end of the remaining portion of the pipe D, filling or substantially filling the pipe B, is placed the washer *d*, to support the coiled tension-spring S, and through which extends the rod C, the upper end thereof passing through the washer *u* and upset, which holds the spring in place. The movement of the slide *a* upon the inclined surface causes the upper end of the rod bearing the spring to move laterally, and in order to permit this movement the washer is provided with a slot or opening of the required size.

The rod C extends down through the inner pipe, D, as indicated by the dotted lines *o*, and is threaded at its lower end to screw into the stem E of the knob F, as shown by dotted lines *v*, thus giving control of the locking-slide *a* from below.

In place of the knob F, a loop may be either formed on the lower end of the rod C or made separately and attached thereto.

To prevent the inner pipe from being entirely withdrawn when being operated, it may be slightly enlarged at or near its upper end and the lower end of the outer pipe correspondingly contracted, in which case the inner pipe is to be inserted at the upper end of the outer pipe before it is secured to the said rosette.

To the nibs P P may be secured lamp-baskets in the ordinary manner.

The office of the spring S is principally to automatically raise the locking-slide *a* on the inclined plane of the inner pipe, so that the outer surfaces of the slide and the pipe shall act upon the inner wall of the outer pipe, B, and thereby insure the suspension of the lamps and fixtures at any desired adjustment, whether heavy or light.

It will be seen that in its upward movement the locking-slide is self-releasing, and that said slide need only be withdrawn to lower the light.

The shoulder at *h* serves to limit the downward movement of the slide *a* and prevents the setting of the spring S.

The outer pipes are made of various lengths to adapt them to different heights of ceilings, the same as gas-fixtures.

The length of the inner pipe should be sufficient to permit any desired drop of the light, and the parts thus lowered are indicated by the dotted lines below.

The advantages of this device over any other heretofore in use for the purpose are its extra efficiency, cheapness, strength, safety, and durability.

I am aware that extension-chandeliers have been made of a telescopic character, and that an inner tube sliding within an outer tube and provided with an inclined surface has been se-

cured by means of a block or clamp sliding on the inclined surface and actuated by a spring. My device differs from others in action in that the parts are arranged to cause it to unlock automatically when the extension member is pushed upward. This action is due to the fact that my locking slide or dog is mounted between and bears directly against both tubes, and is acted upon by a spring sustained and carried on the inner tube.

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

1. The combination of the external tube, the sliding internal tube provided with the downwardly and inwardly inclined plane, the wedge bearing against both the inclined plane and the outer tube, and the spring seated and carried upon the inner tube and connected with the wedge, as shown.

2. An extension-chandelier which unlocks automatically when urged upward, the same embracing the combination of an outer tube, an inner sliding tube with a seat or bearing inclined downward and inward, a wedge seated on said bearing, and a spring-connection between the inner tube and wedge, whereby the latter is forced upward as the inner tube is drawn downward, but released as the tube is pushed upward.

3. The combination of fixed tube B, inner sliding tube, D, with the inclined face on one side, wedge *a*, washer *d*, spring S, and unlocking device C.

JAMES CHASE.

Witnesses:
WM. H. FARRAND,
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