(No Model.)

C. O. YALE.

ADJUSTABLE LAMP HANGER.

No. 354,962. Patented Dec. 28, 1886.

Fig. 2.

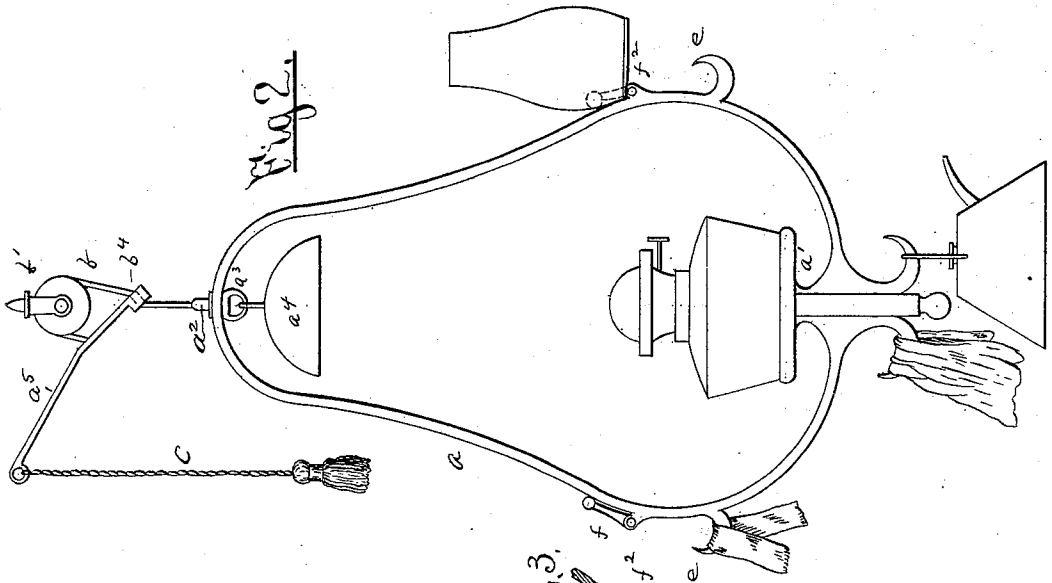
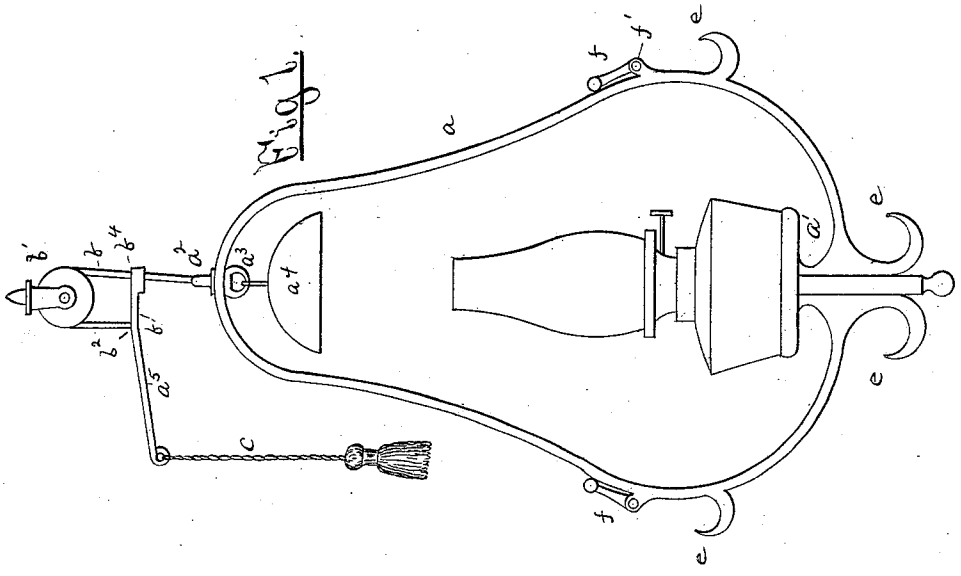


Fig. 3.



Fig. 1.



Witnesses.

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UNITED STATES PATENT OFFICE.

CHARLES O. YALE, OF ROME, NEW YORK, ASSIGNOR OF ONE-HALF TO M. CALVIN WEST, OF SAME PLACE.

ADJUSTABLE LAMP-HANGER.

SPECIFICATION forming part of Letters Patent No. 354,962, dated December 28, 1886.

Application filed January 29, 1886. Serial No. 190,240. (No model.)

To all whom it may concern:

Be it known that I, CHARLES O. YALE, of Rome, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Adjustable Lamp-Hangers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to an adjustable lamp-hanger; and it consists in the mechanism hereinafter pointed out and claimed.

In the accompanying drawings, Figure 1 represents a side view of my improved hanger, showing the clamp-slide in position to either raise or lower the lamp. Fig. 2 is a side view of the same, showing the clamp-slide in position when the lamp is held stationary. Fig. 3 is a detailed section view.

In the accompanying drawings similar letters of reference refer to corresponding parts throughout the several views.

By the use of my improved hanger the lamp can be lowered or elevated, and when so adjusted the same is held stationary by means of the mechanism hereinafter referred to.

In the accompanying drawings, *a* represents a lamp-harp constructed upon my improved plan, provided at the bottom with suitable lamp-seat *a'*. At the upper end of the harp I provide a suitable hook or other device for connecting the supporting-cable for suspending the harp and lamp.

a^2 represents the hook by means of which the cable is attached to the lamp-harp. A suitable loop, a^3, may be provided for supporting smoke-bell a^4.

The essential features of my invention consist in the means for moving the lamp up or down and holding the same stationary in any desired position. I attain this end by means of a cable attached to the lamp-harp, which passes over an anti-friction roll held in the ceiling, one end of the cable held to a clamping device, one end of which engages the cable, as hereinafter more fully explained.

I provide clamping-lever a^5 with a perforated head, b^4, the perforation in the head being of sufficient size to allow the free passage of cable *b* when the lever is balanced. The cable is attached to the lamp-harp at a^2 and passes through the perforated end of the clamping-lever at b^4 and passes over anti-friction roll or pulley *b'*, which is secured in the ceiling. The end of the cable being attached to the clamping-lever at b^2, Fig. 1, I attach cord *c* to the long arm of the lever to facilitate its movement. The lever should be constructed so that the same will substantially balance when the weight of the lamp and harp is taken from the cable by the operator, when the lever assumes substantially the position shown in Fig. 1. The lever should be of sufficient weight to move downward on the cable when the weight of the lamp and harp is taken from the cable by the operator. When the operator removes the support from the lamp and harp friction is produced in the perforated head by the weight of the lamp and harp and the lever is immediately tilted to the position shown in Fig. 2, when the lamp is held stationary. I prefer that the perforated end of the lever-head should be slightly heavier than the opposite end, as this will at all times secure an immediate clamping of the cable when the weight of the lamp and harp is allowed to rest on the cable. To overcome this tendency and to steady the clamping-lever horizontally, as shown in Fig. 1, I provide cord *c*, attached to the long arm of the lever, by means of which the position of the lever during the adjustment of the lamp and harp is at all times kept under the control of the operator.

e e e e represent hooks on the lamp-harp, and *f f* represent adjustable hangers pivoted to ears *f' f'* on the lamp-harp, the adjustable hangers being limited in motion outward by projecting lip f^2 striking a shoulder in the ears to which the adjustable hangers are pivoted.

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

1. In an adjustable lamp-hanger, the combination of the cable, the pulley, and the tilting lever with perforated head through which the cable passes and to which the same is attached on the opposite side of the pulley, the opening in the head constructed to engage or

release the cable when the lever is tilted, arranged substantially as described, for the purposes stated.

2. In an adjustable lamp-hanger, the combination of the cable, the pulley, and the tilting lever with perforated head through which the cable passes and to which the same is attached on the opposite side of the pulley, the opening in the head constructed to engage or release the cable when the lever is tilted, with cord attached to the long arm of the lever, substantially as described.

3. In an adjustable lamp-hanger, the combination of the cable, the fixed support, and the tilting lever with perforated head through which the cable passes and to which the same is attached on the opposite side of the fixed support, the opening in the head constructed to engage or release the cable when the lever is tilted, arranged substantially as described, for the purposes stated.

4. In an adjustable lamp-hanger, the combination of the cable, the fixed support, the tilting lever with perforated head through which the cable passes and to which the same is attached on the opposite side of the fixed support, the opening in the head constructed to engage or release the cable when the lever is tilted, with a cord attached to the long arm of the lever, arranged substantially as described, for the purposes stated.

In witness whereof I have affixed my signature in presence of two witnesses.

CHARLES O. YALE.

Witnesses:
EDWIN H. RISLEY,
DANIEL MCGUCKEN.