(No Model.)

W. C. HOMAN.

WICK RAISER FOR CENTRAL DRAFT LAMPS.

No. 477,862. Patented June 28, 1892.

Fig. 1

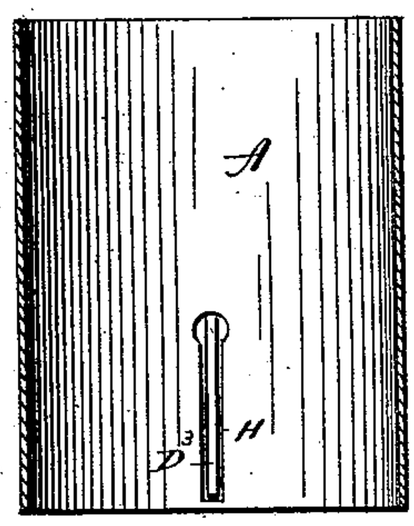

Fig. 5

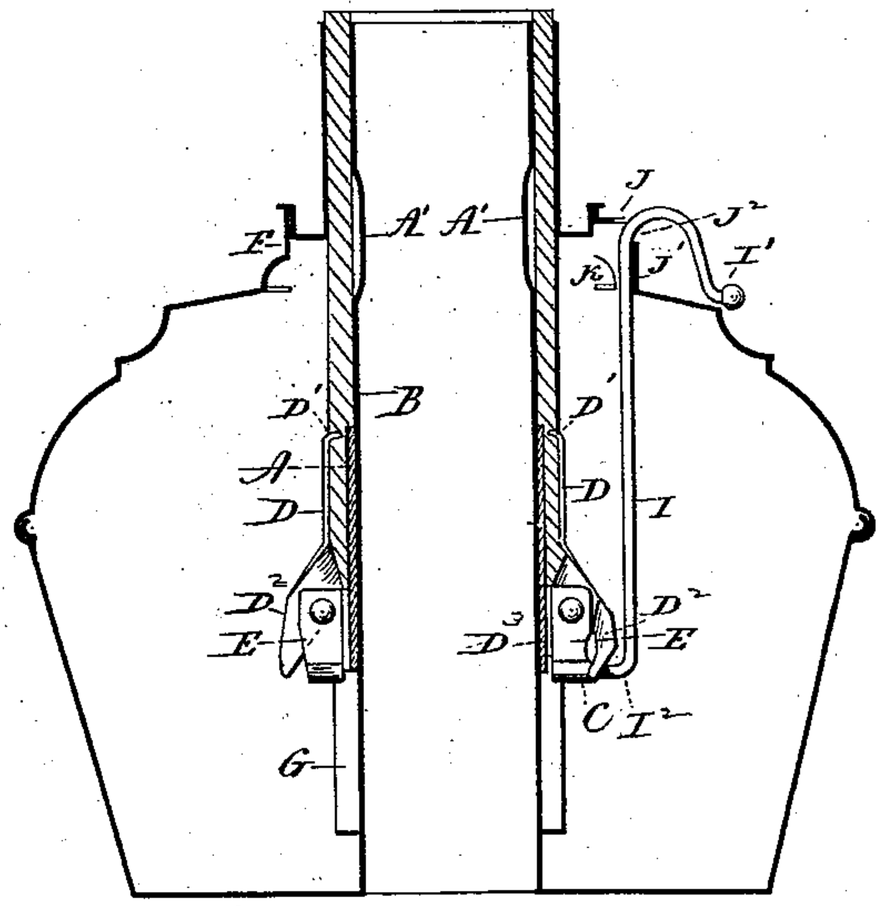

Fig. 4

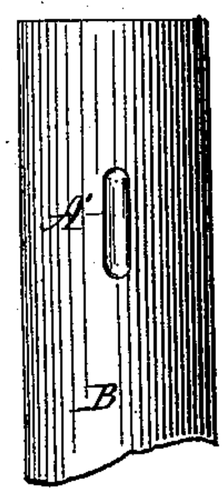

Fig. 2

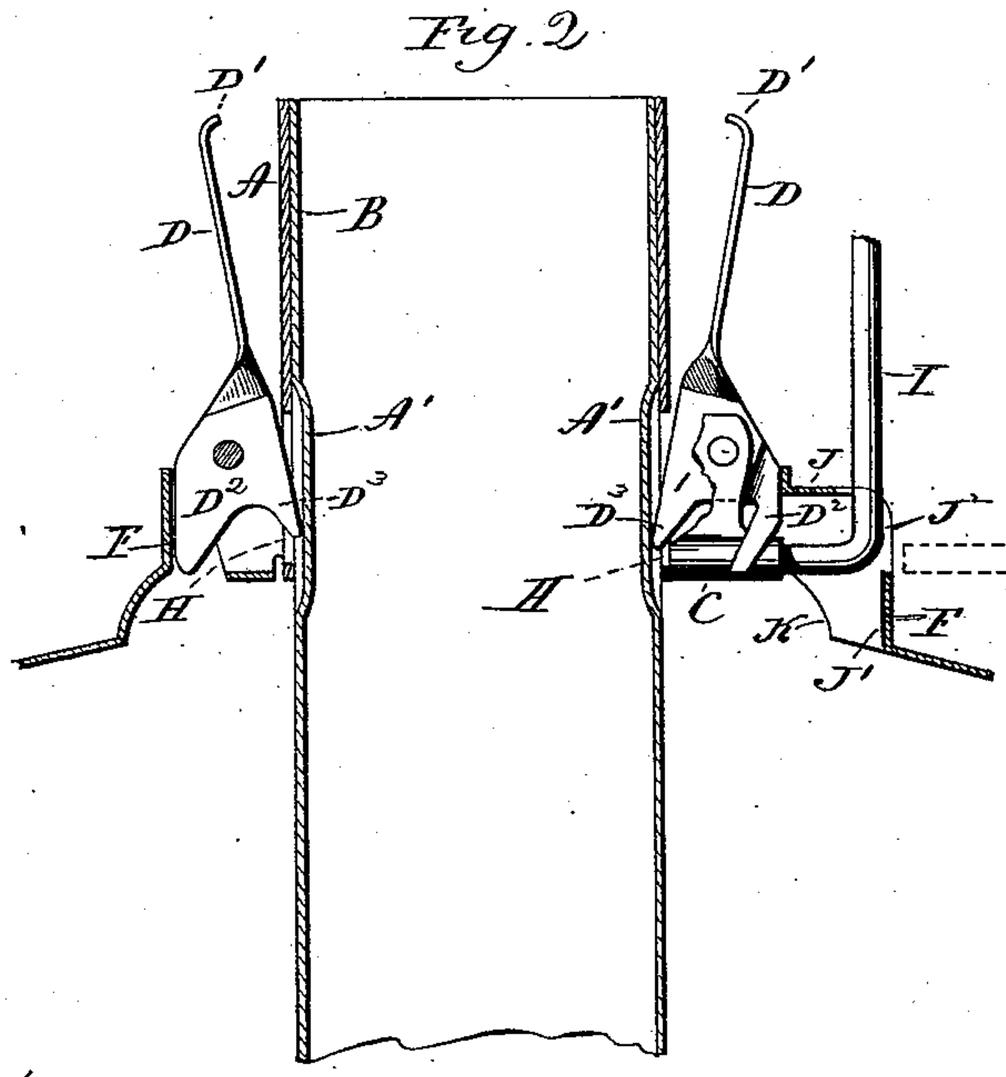

Fig. 3

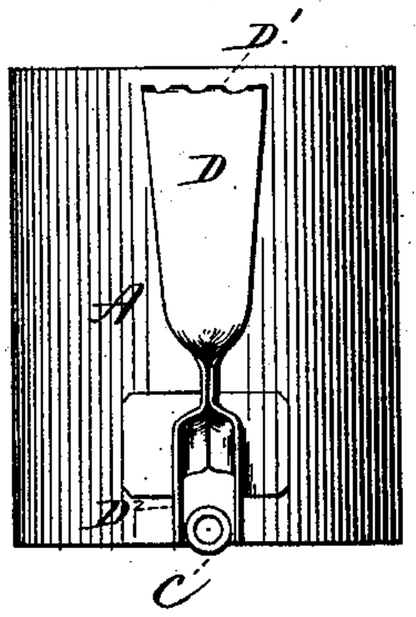

Fig. 6

Witnesses.
J. H. Shumway.
Lillian D. Kelley.

William C. Homan
Inventor.
By attys.
Earle & Seymour

UNITED STATES PATENT OFFICE.

WILLIAM C. HOMAN, OF MERIDEN, CONNECTICUT, ASSIGNOR TO THE EDWARD MILLER & COMPANY, OF SAME PLACE.

WICK-RAISER FOR CENTRAL-DRAFT LAMPS.

SPECIFICATION forming part of Letters Patent No. 477,862, dated June 28, 1892.

Application filed October 19, 1891. Serial No. 409,206. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. HOMAN, of Meriden, in the county of New Haven and State of Connecticut, have invented a new Improvement in Wick-Adjusters for Central-Draft Lamps; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in vertical central section of a lamp constructed with a wick-adjuster made in accordance with my invention and showing the device in its operative position; Fig. 2, an enlarged broken view, partly in section and partly in elevation, showing the lamp with the burner-socket removed and the wick-adjuster raised to its highest position for the detachment of the draw-bar, as indicated by broken lines, to permit the integral removal of the wick-carrier; Fig. 3, a view on the same scale, in side elevation, of the wick-band and one of the clamping-arms of the wick-carrier, the socket projecting outwardly from the lower edge of the band being clearly shown; Fig. 4, a broken view, in side elevation, of the central draft-tube of the lamp, showing one of the long operating-recesses therein; Fig. 5, a detached view in vertical central section, showing the inside of the wick-carrier; Fig. 6, a detached perspective view of the guide.

My invention relates to an improvement in wick-adjusters for central-draft lamps, the object being to produce a removable device not only simple and cheap in construction and effective in operation, but also one adapted to permit the wick to be applied and removed with great facility with very little handling and by an inexperienced person.

With these ends in view my invention consists in the combination, with a wick-carrier adapted to be applied to the draft-tube of a lamp and constructed with a horizontal radial socket, forming a long bearing, of a draw-bar constructed at its lower end with a foot shaped to enter said socket removably, and thus couple the carrier and bar together.

My invention further consists in certain details of construction and combination of parts, as will be hereinafter described, and pointed out in the claims.

As herein shown, the wick-carrier consists of a long sheet-metal wick-band A, adapted to encircle the draft-tube B so as to be in direct contact therewith, a small cylindrical horizontal socket C, projecting radially outward from the lower edge of the said band to which it is secured, and two pivotal clamping-arms D D, pivoted in brackets E E, secured to the band near the lower end thereof at opposite points thereon. The upper ends of the said clamps are furnished with inwardly-projecting teeth D′, while their lower ends are provided each with a cam-finger D^2 and an operating-finger D^3. The operating-fingers D^2 of the two clamping-arms are adapted to engage, when the wick-adjuster is lifted, with the neck F of the lamp-fount, whereby the toothed upper ends of the arms are thrown outwardly and disengaged from the wick G, their operating-fingers D^3 being at this time thrown into long operating-recesses H, formed in the draft-tube B toward the upper end thereof at opposite points therein. When the wick-carrier is pushed downward into the lamp and the cam-fingers D^2 D^2, before mentioned, are cleared from the said neck of the fount, the operating-fingers D^3 D^3 ride up out of the lower ends of the said recesses, and then, engaging with the plain surface of the draft-tube, cause the upper ends of the arms to be thrown inward and the wick engaged and held, the wick-band being thereto provided at opposite points in its circumference with narrow vertical slots A′ A′, permitting the said operating-fingers to enter the said recesses and also to engage with the surface of the tube. The said clamps I do not claim, broadly, as a part of my invention, and would have it understood that they may be replaced by any other suitable device for attaching the wick to the band.

As herein shown, the draw-bar of the wick-adjuster is made from a piece of heavy wire, straight in its main portion I, curved outwardly at its upper end to form a handle I′, and bent inwardly at a right angle at its lower end to form a foot I^2, which is adapted in size to fit snugly within the socket C, before mentioned, and forming a long bearing for it.

I do not, however, limit myself to constructing the draw-bar as shown and described, the only requirement being, as far as my present invention is concerned, that it be provided at its lower end with a foot adapted to co-operate with a socket carried by the wick-carrier, so as to couple the carrier and bar together. As herein shown, also, the lamp is provided with a guide J, struck up from sheet metal in the form of a boss, and attached to the neck of the lamp over a vertical slot K, formed therein. This guide is vertically contracted along its outer edge, as at J′, so as to in a manner fit around the straight main portion of the draw-bar and form a bearing therefor in its vertical movements. The upper end of the guide is, however, closed and forms a stop for the wick-adjuster when the same is raised to its highest position, so that it cannot be integrally removed from the lamp. At its upper outer corner the guide is furnished with an opening J^2, which, being located at the very corner of the guide, may be said to open both vertically and laterally. Considered as a vertical opening it permits the main portion of the draw-bar to play up and down, and as a lateral opening it permits the foot of the draw-bar to be drawn laterally out of the socket C when the wick-adjuster has been raised to its highest position, and it also permits the said foot to be inserted into the said socket when the same has been aligned with the opening.

In the ordinary use of the lamp the burner-socket L, which fits into the upper edge of the ring F of the lamp-fount, prevents the wick-adjuster from being lifted high enough for the engagement of the cam-fingers D^2 of the clamping-arms with the neck F of the lamp-fount, so that the wick is never released except when the socket has been removed and the wick-adjuster raised to its highest position. It will be noticed that when the draw-bar has been uncoupled from the wick-carrier the same may be integrally removed from the lamp-fount by simply drawing its band up over the upper end of the draft-tube.

Under my invention the wick-adjuster is very readily assembled with the lamp-fount and as readily detached therefrom if for any reason it be necessary. Moreover, the device enables the wick to be attached to and removed from the wick-carrier with great facility and with the least handling of the wick.

I am aware that a wick-adjuster having its draw-bar made removable from its wick-carrier is old and that it is also old to provide a guide for such a draw-bar. I do not, therefore, claim this construction, broadly.

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

1. In a central-draft lamp, the combination, with a wick-carrier adapted to be applied to the draft-tube of a lamp and constructed with an outwardly-projecting horizontal radial socket forming a long bearing, of a draw-bar having its lower end constructed to form a foot shaped to enter the said socket, and a closed guide forming a vertical bearing for the said bar, secured to the top of the lamp-fount at the inner edge thereof and furnished at its upper outer corner with an opening facing upwardly and outwardly, whereby the straight portion of the bar is permitted to play up and down in the guide and its foot to be moved laterally thereto, substantially as set forth.

2. In a central-draft lamp, the combination, with a wick-carrier comprising a band encircling the draft-tube, a horizontal radial socket located at the lower end of the said band and forming a long bearing, and means carried by the band for securing the wick thereto, of a draw-bar having a horizontal inwardly-turned foot at its lower end to enter the said socket and a closed guide secured to the top of the lamp-fount at the inner edge thereof and shaped to form a vertical bearing for the said bar and constructed with an opening located at its upper outer corner and facing both upwardly and outwardly, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM C. HOMAN.

Witnesses:
S. D. HANNEY,
W. L. BABCOCK.