

(No Model.)

A. D. C. VEST.
HINGED LAMP COLLAR.

No. 423,359.

Patented Mar. 11, 1890.

Fig. I.

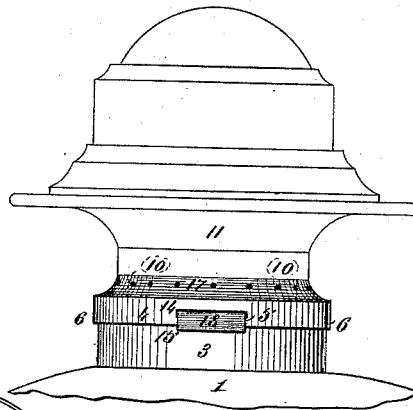


Fig. II.

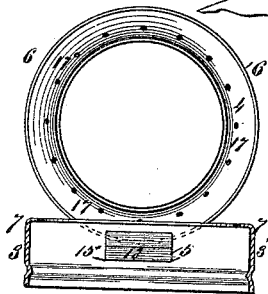


Fig. III.

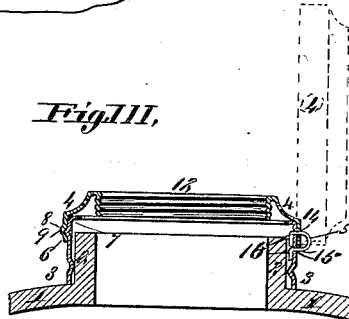


Fig. IV.

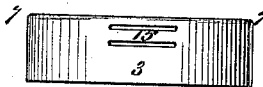


Fig. V.



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HINGED LAMP-COLLAR.

SPECIFICATION forming part of Letters Patent No. 423,359, dated March 11, 1890.

Application filed April 29, 1889. Serial No. 308,969. (No model.)

To all whom it may concern:

Be it known that I, AMERICUS D. C. VEST, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Hinged-Collar Lamp Attachments, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to those devices in which the flanged collar-ring in which the burner is screw-seated is hinged directly to the collar, which is cemented to the neck of the lamp by a peculiar conformation of hinge, thereby dispensing with the intermediate coupling-section; and the invention consists in that and other features of novelty, herein-after fully described, and pointed out in the claims.

Figure I is a detail elevation of a lamp to the attached collar of which my perforated flanged collar-ring is engaged by a loop-hinge which passes through a slot in the flange-ring, in which it has loose bearings, and the ends of which loop are seated and fastened in parallel slots in the attached collar, and in outline shows the burner seated in the perforated attachment-collar. Fig. II is a vertical section of the collar previous to its attachment to the neck of a lamp, and shows the perforated flanged collar-ring hinged thereto and opened upon its hinge. Fig. III is a vertical detail section of the lamp, with its attached collar with my attachment-flanged collar-ring secured thereto by my loop-hinge, and shows in full lines the flanged collar-ring closed down, and in broken lines shows it elevated. Fig. IV is a side view of the collar that is to be secured by cement or otherwise to the neck of the lamp, and shows the parallel slots to which the loop-hinge is to be fastened; and Fig. V is a like view of the attachment-flanged collar-ring, and shows the slot in which the loop of the hinge has loose bearings, and the perforations for the escape of the volatile gases.

Referring to the drawings, 1 represents a detail of the shoulder of a lamp, and 2 its neck, to which the stationary collar 3 is cemented or otherwise rigidly secured.

4 represents the flanged attachment collar-

ring, which is secured directly to the stationary collar 3 by the loop-hinge 5, thus dispensing with the intermediate collar which is sometimes screwed into the stationary collar and connected by a screw attachment with the flanged collar into which the burner screws, whereas with my direct-burner attachment device, as stated, the flanged attachment-collar 4 is directly secured to the stationary collar 3, that surrounds the neck 2 of the lamp by the loop-hinge 5, and when folded down on its seat on the stationary collar the peripheral pendent flange 6 of the attachment-collar 4 embraces the rim 7 of the stationary collar to provide a close vapor-tight joint, and the snap-catch 8 on the stationary collar 3 engages in the center-punch recess 9 in the pendent flange of the attachment-collar 4. The said snap-catch and recess are simultaneously made before the collars 3 and 4 have been secured to the lamp after closing down the pendent flange 6 of the collar 4 to its seat around the rim 7 of the collar 3 by center-punching the two engaged parts together at the front side opposite the hinge. The attachment-screw 10 of the burner 11 (which burner may be of any usual construction) is turned into engagement with the screw 12 of the flanged attachment-collar 4.

The loop-hinge 5, that secures the attachment-collar 4 to the stationary collar 3, provides a simple yet efficient means of hinge attachment, which at the same time is less expensive in construction than the hinge now most commonly used, and also provides a buffer-stay to prevent the collision of the burner and flue (when they are thrown back) with the lamp. The hinge is formed by a sheet-metal loop 13, bent to the form shown in Figs. I, II, and III, the bow of which has a loose bearing in the slot 14 in the flanged collar-ring 4, and the ends of which are passed through the parallel slots 15 in the stationary collar 3, and are then bent down into angle-flange terminals 16, which are seated in close contact with the inner periphery of the stationary collar 3 and soldered thereto. The flanged collar-ring 4 opens easily on this hinge to a right angle with the stationary collar 3, as shown in broken lines in Fig. III, which is as far as it is required to open, and,

being stayed at that point, it prevents the burner and flue when thrown back from coming into violent contact with the lamp.

The perforations 17 in the flanged collar-ring 4 provide means for the free exit of the volatile gases that arise from the oil.

Another advantage derived from my lamps is reducing the elevation of the burner above the lamp-reservoir. Again, it will be seen that by the use of this attachment, when it is required to replenish the lamp with oil, there is no necessity to disconnect the burner, but simply turn back the flanged collar 4, as shown in Figs. I and III, and in broken lines in Fig. IV, in which case the burner is left connected with said collar, and the whole area of the throat through the neck of the reservoir of the lamp is opened up for pouring in the oil. Thus it will be seen that not only is the necessity avoided of removing the burner from the lamp with the wick pendent therefrom and dripping with oil, but also the aperture provided through which to pour the oil is much larger and more convenient than it is within the contracted aperture provided by the screw-seat opening in the center of the flanged attachment-collar that is arranged for the insertion of the peripheral screw of the burner. Still, again, it will be seen that when this device is used there are no loose parts provided with the lamp and its attachments, except the bare burner itself. The reservoir, with the collar secured to its neck and its hinged flange-collar inseparable therefrom, is of necessity an inseparable provision, needing alone the addition of any burner as provided by the trade, without having, as is usual, to provide any intermediate part or parts, such as the usual connecting-section.

I claim as my invention—

1. In a lamp-burner attachment, the combination of the stationary collar 3, provided

with parallel slots 15, the flanged attachment-collar 4, that carries the burner, the said collar 4, provided with the slot 14, and the loop-hinge 5, that works in the slot 14 of the collar 4 and is seated and secured within the parallel slots 15 of the collar 3, substantially as described, and for the purpose set forth.

2. In a lamp-burner attachment, the combination of the stationary collar 3, rigidly secured to the neck of the lamp-reservoir, the flanged attachment-collar 4, provided with perforations 17 for the escape of the volatile gases, and provided with the attachment inner screw 12, with which the peripheral screw of the burner engages, and the loop-hinge 5, whose bow or loop has free bearings in the slot 14 in the attachment-collar 4, and whose flanged ends are secured within the parallel slots 15 of the collar 3, substantially as described, and for the purpose set forth.

3. In a lamp-burner attachment, the combination of the stationary collar 3, rigidly secured to the neck of the lamp-reservoir, the flanged attachment-collar 4, provided with perforations 17 for the escape of volatile gases, the loop-hinge 5, by which said collar is secured to the stationary collar, the curved peripheral flange that hangs pendent from the collar 4, and which pendent flange embraces the rim of the stationary collar to effect a close joint, and the snap-catch 8 on the stationary collar, which engages in the recessed countersink in the pendent flange of the collar 4, the loop-hinged connection of the burner attachment-collar 4 with the stationary collar 3, arranged to dispense with all intermediate attachments, substantially as described, and for the purpose set forth.

AMERICUS D. C. VEST.

In presence of—

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W. B. CAMPBELL.