

(No Model.)

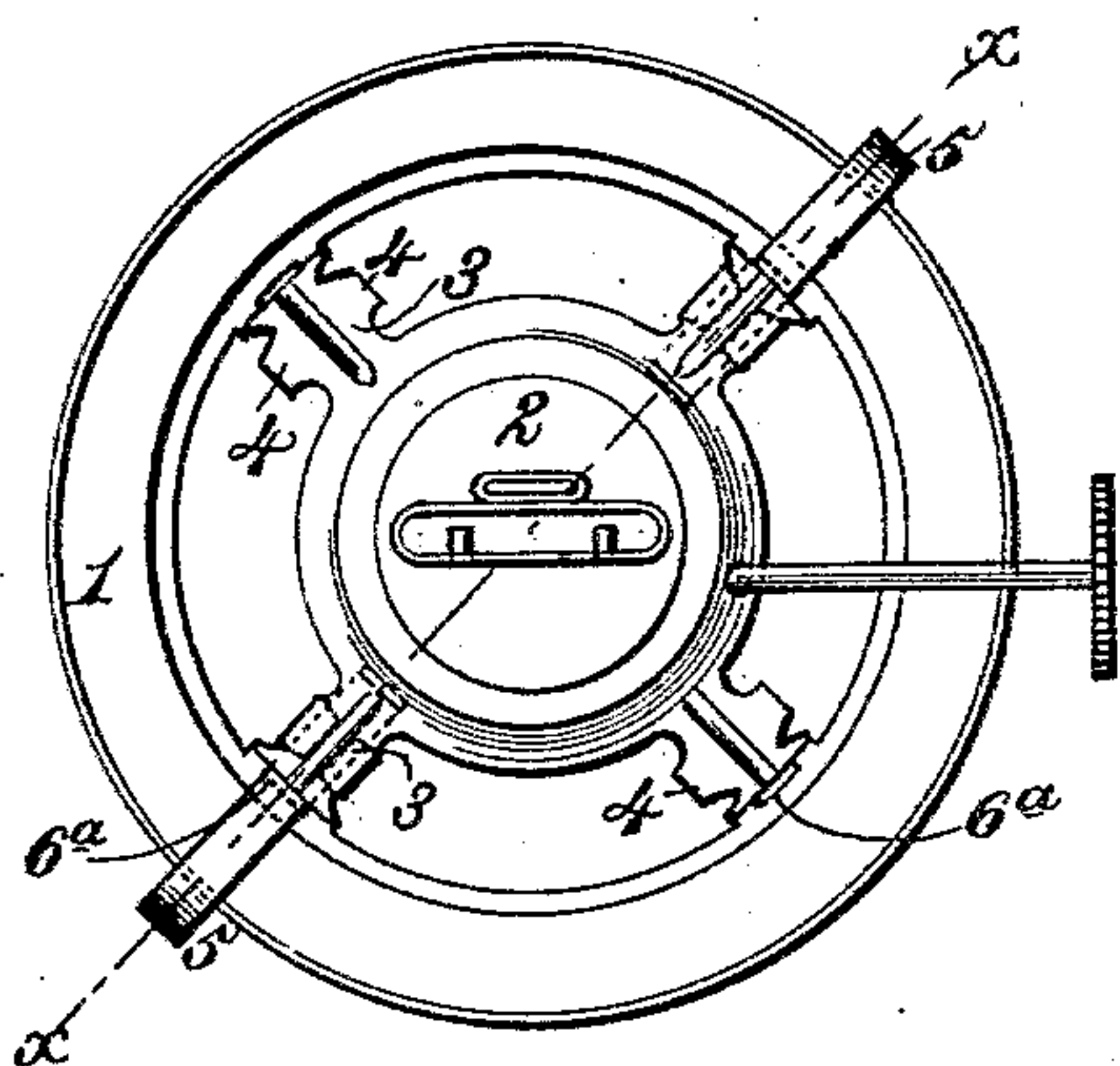
D. L. DURAND.

LAMP BURNER.

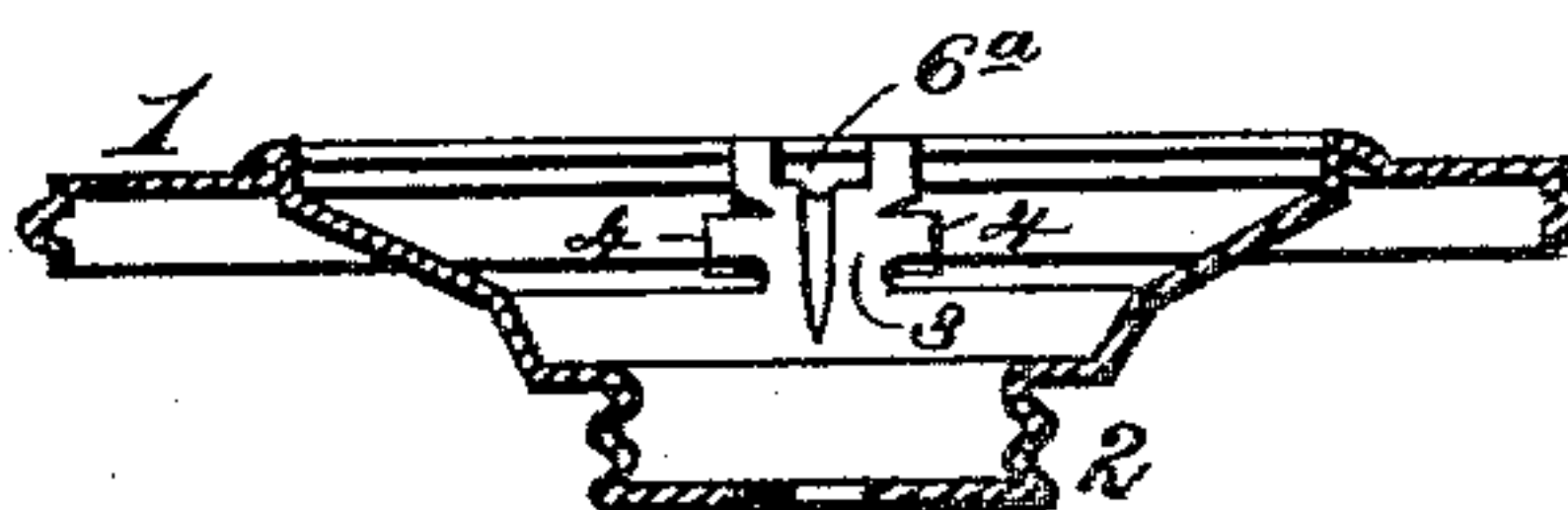
No. 315,919.

Patented Apr. 14, 1885.

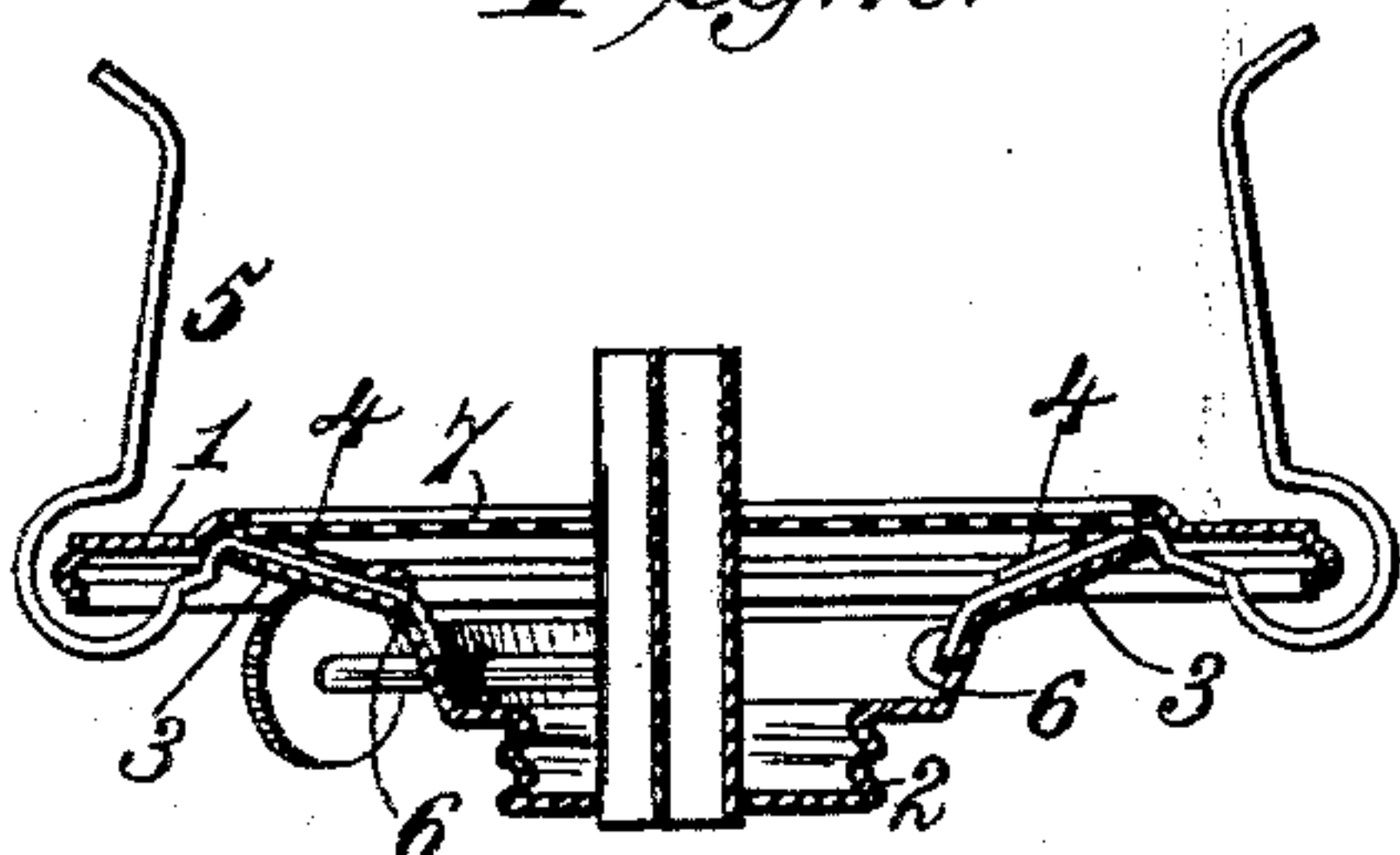
*Fig. 1.*



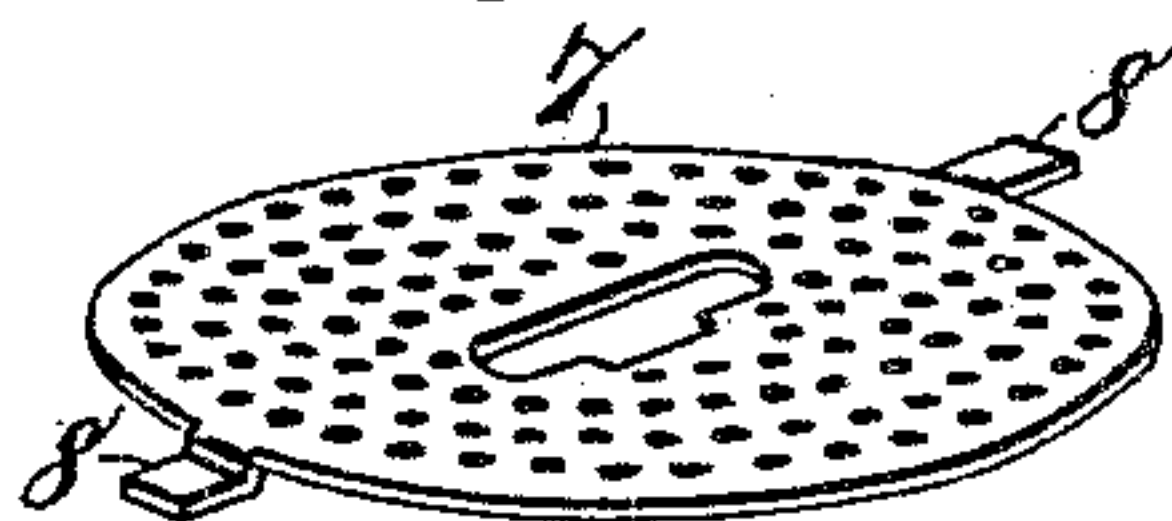
*Fig. 2a.*



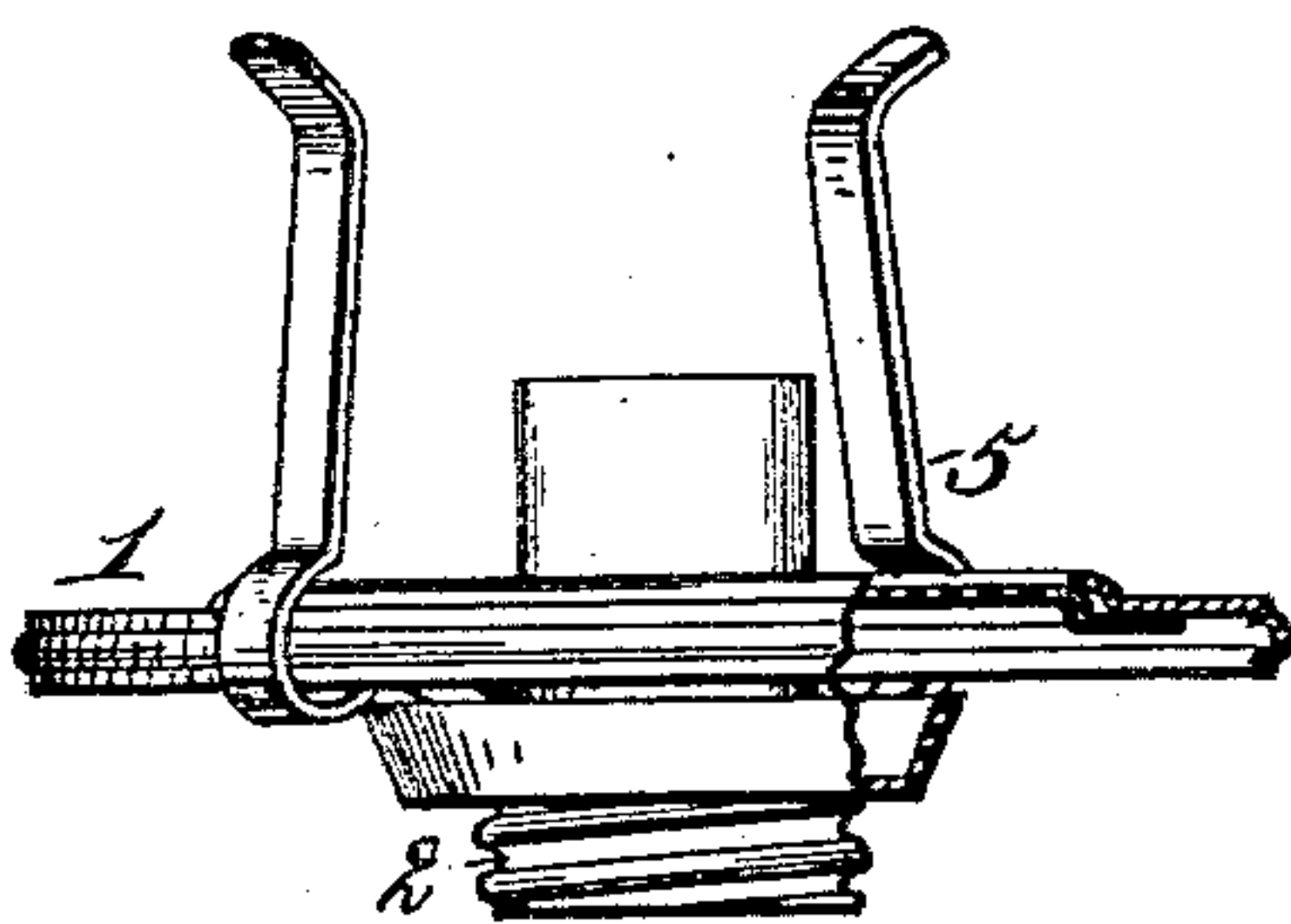
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



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# UNITED STATES PATENT OFFICE.

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## LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 315,919, dated April 14, 1885.

Application filed November 15, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID L. DURAND, a citizen of the United States, residing at Derby, New Haven county, Connecticut, have invented  
5 new and useful Improvements in Lamp-Burners, of which the following is a specification.

My invention relates to lamp-burners, and the purpose thereof is to improve the construction and simplify the manufacture of the  
10 same by forming the base-plate or chimney-rest, the screw-neck, and the radial arms connecting them of one and the same piece of metal, the arms being provided with lips upon each side to hold the chimney-springs.

15 It is also the purpose of my invention to provide the burner with a perforated air-distributor which may be easily attached to or detached from it for the purpose of cleaning the parts.

20 The invention consists of the several novel features of construction and combinations of parts hereinafter fully set forth, and definitely pointed out in the claims annexed to this specification.

25 Referring to the drawings forming part of this application, Figure 1 is a plan view of a burner embodying my invention. Fig. 2 is a vertical section of Fig. 1 in the plane  $x x$ ; Fig. 2<sup>a</sup>, a similar view with the chimney-springs and  
30 air-distributor omitted. Fig. 3 is a perspective view of the air-distributing plate detached. Fig. 4 is an edge view, partly in section, showing the manner of attaching the air-distributing plate.

35 In the said drawings, the reference-numeral 1 denotes the base-plate or chimney-ring, which is of the usual form, and the numeral 2 indicates the screw-neck, connected with the chimney-rest by radial arms 3, having lips 4 formed  
40 laterally upon each arm. These parts are all struck from the same plate or piece of metal, and the radial arms 3 are provided with lips 4, struck out of the same piece, and having such form that they may be bent over upon and  
45 firmly hold the chimney-supporting springs or arms 5, which have a shank, 6, inserted in an opening, 6<sup>a</sup>, formed at the junction of said radial arms with the chimney-ring, as shown in Fig. 2<sup>a</sup>. These lips, being folded or bent over  
50 upon the superincumbent spring-shanks 6,

hold the same firmly and securely in place. The air-distributing plate 7 consists of a thin metallic disk thickly perforated with air-openings, as usual, and having such diameter that it may readily be inserted within the  
chimney-ring. Upon the periphery of said  
55 disk, at opposite points thereon, are formed lugs or points 8, which project beneath the chimney-holding ring, and are bent closely up against it, thereby holding the air-plate 7  
60 firmly in place, and at the same time permitting its ready removal for the purpose of cleaning the parts composing the burner. In striking out the chimney-ring with the screw-neck  
65 attached an opening, 6<sup>a</sup>, is formed at the outer end of each radial arm 3, to admit the shanks of the chimney-springs.

By my invention the construction of the burner is greatly simplified and the cost of manufacture lessened. By making the air-  
70 distributing plate removable the burner may be easily and thoroughly cleansed.

Heretofore the screw-base of a burner has been formed with radial arms having lips at their edges, which are turned over upon the  
75 ends of the chimney-springs to secure them in position. Such, therefore, I do not broadly claim.

What I claim is—

1. In a lamp-burner, the chimney-support-  
80 ing ring, the screw-neck, and the radial arms having lateral lips for holding the chimney-springs, said ring, screw-neck, arms, and lips all struck up integral from a single piece of metal, substantially as and for the purpose  
85 described.

2. In a lamp-burner, the combination, with the chimney-ring, of the screw-neck connected thereto by radial arms having lateral lips, the whole struck from a single plate or piece of  
90 metal, apertures being formed at the extremity of each radial arm, substantially as described.

3. In a lamp-burner, the combination, with the chimney-ring 1 and the screw-neck 2, connected by radial arms 3, having lips 4, the  
95 whole struck from a single piece of metal, of the chimney-springs 5, having shanks 6, inserted in apertures 6<sup>a</sup>, substantially as described.

4. In a lamp-burner, a removable air-dis- 100

tributing plate having lugs projecting from its periphery, by which it may be attached to the burner, substantially as described.

5 In a lamp-burner, a removable air-distributing plate, 7, having lugs 8, adapted to engage with the chimney-ring of the burner, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID L. DURAND.

Witnesses:

JOHN E. LEWIS,  
E. C. DREW.