(No Model.)

J. JAUCH.

AIR DISTRIBUTER FOR CENTRAL DRAFT LAMPS.

No. 561,321. Patented June 2, 1896.

Fig. 1.

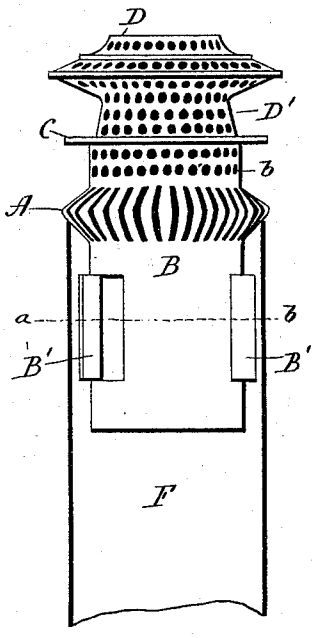


Fig. 2.

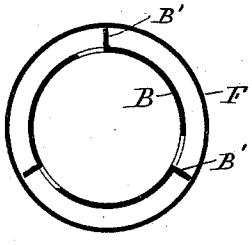


Fig. 3.

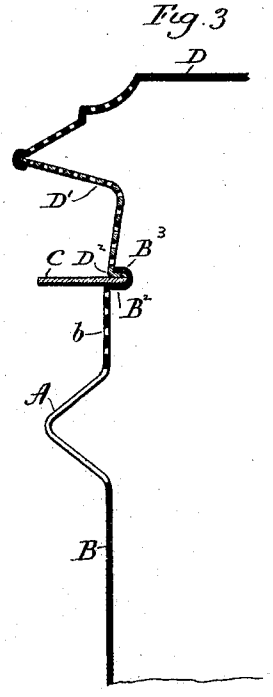
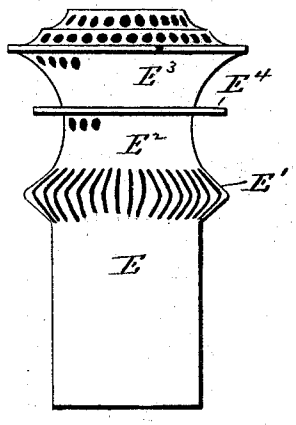


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOSEPH JAUCH, OF MERIDEN, CONNECTICUT, ASSIGNOR TO THE BRADLEY & HUBBARD MFG. CO., OF SAME PLACE.

AIR-DISTRIBUTER FOR CENTRAL-DRAFT LAMPS.

SPECIFICATION forming part of Letters Patent No. 561,321, dated June 2, 1896.

Application filed February 10, 1896. Serial No. 578,629. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH JAUCH, of Meriden, in the county of New Haven and State of Connecticut, have invented a new Improvement in Air-Distributers for Central-Draft Lamps; and I do hereby declare the following, when taken in connection with the 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 side elevation showing one form which an air-distributer constructed in accordance with my invention may assume, and also showing one way in which it may be supported in the draft-tube of a central-draft lamp; Fig. 2, a view of the distributer and tube in transverse section on the line *a b* of Fig. 1; Fig. 3, an enlarged view in vertical central section of the distributer; Fig. 4, a view in side elevation of one of the modified forms which my invention may assume.

My invention relates to an improvement in air-distributers for central-draft lamps, the object being to produce a simple and effective distributer constructed with particular reference to securing as complete a combustion of the oil as is consistent with the production of a flame of high illuminating value.

With these ends in view my invention consists in an air-distributer having certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

In carrying out my invention, as shown in Figs. 1, 2, and 3 of the drawings, I form the distributer with a crown-like enlargement, composed of a circular series of outwardly bowed or angled parallel bars A. These bars are located in vertical planes, but that is not imperative. The upper and lower ends of the said bars merge into the cylindrical body B of the distributer with which they are formed integral, and which is of smaller diameter both above and below the crown than the largest diameter thereof. That portion of the body located below the crown is furnished, as shown, with radial wings B′. As represented, and preferably, these wings are made integral with the body B of the distributer, but that is not necessary. That portion of the body of the distributer lying above the crown corresponds in diameter, as shown, to its lower portion, and is formed with small perforations *b*, which may vary in number and size, as desired. The upper portion of the body of the distributer is reduced to form an inwardly-extending shoulder B^2 and an outwardly-turned retaining-flange B^3, as shown in Fig. 3. An annular horizontally-arranged deflector C is supported upon the shoulder B^2 aforesaid, this deflector substantially corresponding in diameter to the diameter of the crown A in its largest portion, and may be perforated or not, as desired. Above the said deflector the distributer is furnished with another deflector, which for convenience in distinguishing between the two deflectors I shall term a "spreader." This is composed, as shown, of a conical stepped and perforated cap D and a funnel-shaped body D′, the flange-like upper portion whereof is perforated and made sufficiently large to have the said cap D applied to it. The lower edge of the body D′ of the said spreader is turned inward to form a flange D^2, which rests upon the inner edge of the upper face of the annular deflector C. The retaining-flange B^3 before mentioned is turned outwardly over the upper face of the flange D^2, whereby the spreader and deflector are both firmly secured to the body of the distributer. I do not, however, limit myself to constructing and assembling the distributer as described, nor to employing either or both the deflector and spreader, as my invention in its broad aspect resides in a distributer formed with a crown-like enlargement composed of parallel bars and larger in diameter in its largest portion than those portions of the distributer lying immediately above and below it, the bars of the said enlargement being located in vertical planes and being bent midway of their length and separated by unobstructed vertical air-passages.

If desired, my improved distributer may have the form shown in Fig. 4 of the drawings, in which that portion of the body E of the distributer lying above the crown E′ thereof is concaved, as at E^2, and the body E^3 of the spreader of the distributer correspondingly concaved so as to form a long concaved line

beginning with the cap of the spreader and terminating at the upper edge of the crown, this line being broken by the annular horizontally-arranged deflector E^4.

I do not limit myself to mounting the distributer in any particular manner; but, as shown in Fig. 1 of the drawings, I have represented it as being supported by its crown upon the upper edge of a central-draft tube F, with the walls of which the wings B′ engage so as to form steadiments for the distributer, which, if preferred, may be supported in any other way—as, for instance, by resting its lower end upon a bead formed within the draft-tube. I would therefore have it understood that I do not limit myself to the exact construction herein shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

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

An air-distributer for central-draft lamps, formed with a crown composed of parallel bars and larger in diameter in its largest part than those portions of the distributer lying immediately above and below it, the bars of the crown being located in corresponding planes and bent midway of their length and separated from each other by unobstructed air-passages, substantially as described.

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

JOSEPH JAUCH.

Witnesses:
H. S. SAVAGE,
F. A. LEEDS.