

C. L. BETTS.  
 BURNER FASTENING FOR LAMPS AND LANTERNS.  
 APPLICATION FILED SEPT. 6, 1907.

962,115.

Patented June 21, 1910.

Fig. 1.

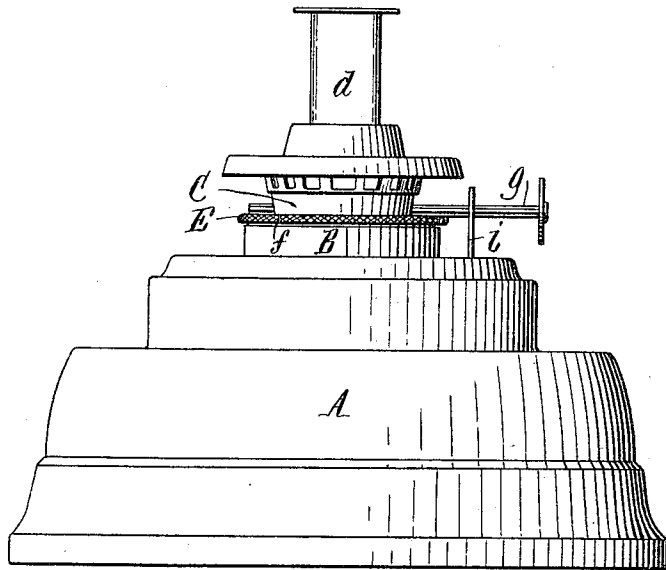


Fig. 2.

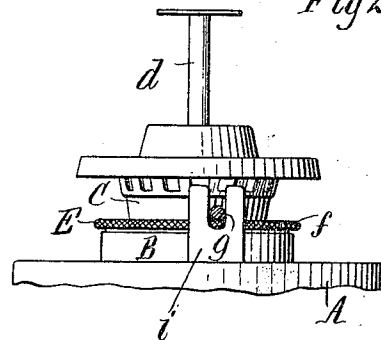


Fig. 3.

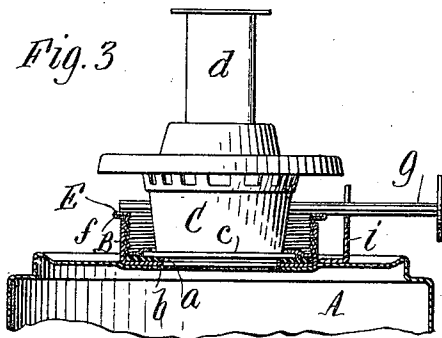


Fig. 4.

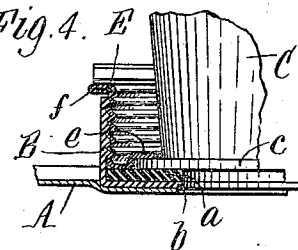


Fig. 5.

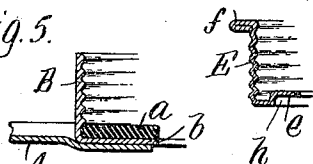
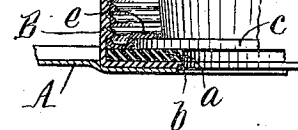


Fig. 6.



Witnesses: A  
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# UNITED STATES PATENT OFFICE.

CHARLES L. BETTS, OF NEW YORK, N. Y., ASSIGNOR TO R. E. DIETZ COMPANY, OF  
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BURNER-FASTENING FOR LAMPS AND LANTERNS.

962,115.

Specification of Letters Patent. Patented June 21, 1910.

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To all whom it may concern:

Be it known that I, CHARLES L. BETTS, a citizen of the United States, residing at New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Burner-Fastenings for Lamps and Lanterns, of which the following is a specification.

This invention relates to lamps and lanterns in which the oil pot is provided with an internally-threaded socket for the reception of the burner and in which the connection of the burner with the socket is made in such manner that the burner can be secured by means of a screw collar in the proper position with reference to the reflector or lens.

The object of this invention is to produce a burner fastening of this character which is simple, cheap and efficient and by which a tight joint is formed between the burner and the socket, whereby leakage of the oil through the socket is avoided.

In the accompanying drawings: Figure 1 is an elevation of an oil pot and burner provided with my improvement. Fig. 2 is an elevation of the burner and upper part of the oil pot at right angles to Fig. 1. Fig. 3 is a sectional elevation of the upper part of the oil pot and burner. Fig. 4 is a fragmentary sectional elevation of the burner socket and connecting parts, on an enlarged scale. Fig. 5 is a fragmentary vertical section of the burner socket. Fig. 6 is a fragmentary vertical section of the attaching screw collar.

Like reference characters refer to like parts in the several figures.

A represents an oil pot of any suitable construction and B the usual internally-threaded burner socket which is soldered or otherwise secured to the top of the oil pot.

a represents the usual washer which is placed upon the bottom flange b of the socket to form a seat for the burner.

C represents the burner which is considerably smaller in diameter than the burner socket and provided at the bottom with an external flange c by which it rests upon the washer.

d represents the wick tube.

E represents the attaching screw collar which is provided with an external thread fitting in the thread of the burner socket

and having at the bottom an internal flange e which bears upon the flange c of the burner and presses the same down upon the washer, thereby forming an oil-tight joint between the burner and the socket. This attaching collar projects at the top outwardly over the burner socket and is there provided with suitable means for turning it, for instance, a roughened or knurled rim f.

g represents the wick raiser shaft which extends over the attaching collar E. The lower flange e of the latter is preferably provided on its under side with an annular recess or depression h which receives the bottom flange c of the burner, whereby the collar is held against lateral displacement with reference to the burner, while the wick raiser shaft limits the upward movement of the collar with reference to the burner. The collar is by these devices permanently and rotatably attached to the burner.

The oil pot may be provided with a forked or notched standard i into which the wick raiser shaft can be placed for preventing the burner from rotating with the attaching collar in tightening the latter and the burner.

For applying the burner to the oil pot the burner is introduced into the socket with the wick tube and wick raiser shaft in the desired position and the attaching collar is screwed into the socket until the burner is tightened upon the washer or other seat. During this operation the collar rotates about the burner and does not disturb the position of the wick tube and wick raiser shaft.

I claim as my invention:

1. The combination of an oil pot provided with a fixed internally-threaded burner socket having at its bottom a seat for the burner, a burner adapted to rest upon said seat and provided with an external bottom flange, and an externally-threaded attaching collar which is screwed into said socket and provided at the bottom with an internal flange which bears upon the flange of the burner, substantially as set forth.

2. The combination of an oil pot provided with a fixed internally-threaded burner socket having at its bottom a seat for the burner, a burner adapted to rest upon said seat and provided with an external bottom flange, an externally-threaded attaching col-

lar which is screwed into said socket and provided at its bottom with an internal flange which bears upon the flange of the burner, and a wick raiser shaft which extends over said attaching collar and limits the upward movement thereof on the burner, substantially as set forth.

Witness my hand in the presence of two subscribing witnesses.

CHARLES L. BETTS.

Witnesses:

F. W. VAN DUYN,  
FRED H. TWOMBLY.