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J. B. ALEXANDER'S

improvement in attaching LAMP BURNERS TO LAMPS.

PATENTED

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Fig. 2.

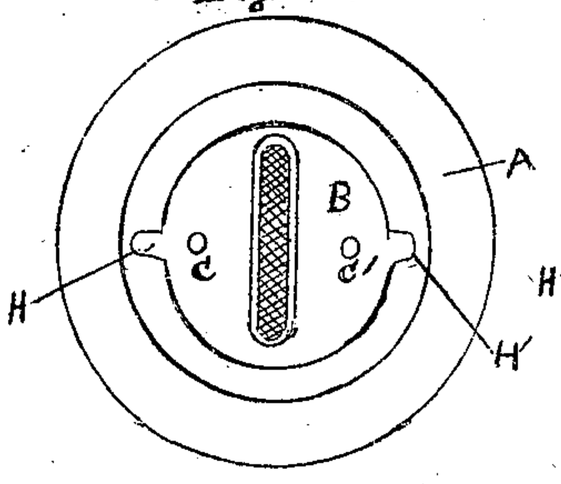
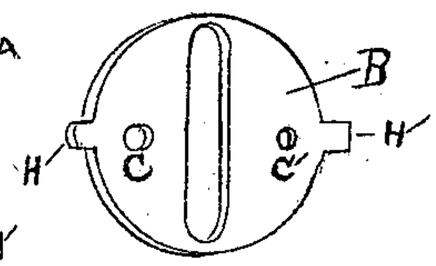


Fig. 4



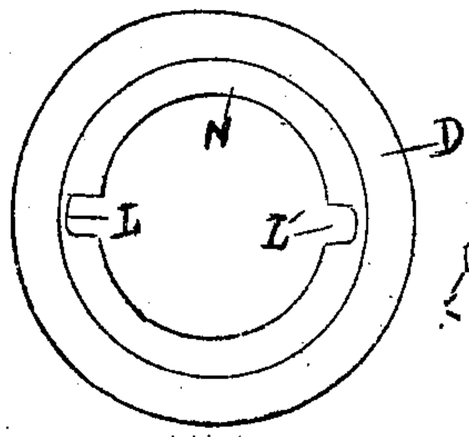


Fig 3

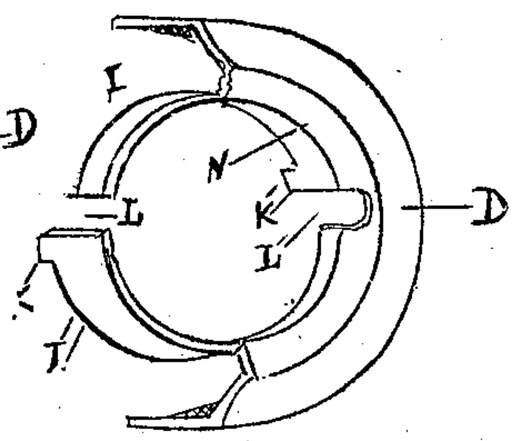


Fig. 5

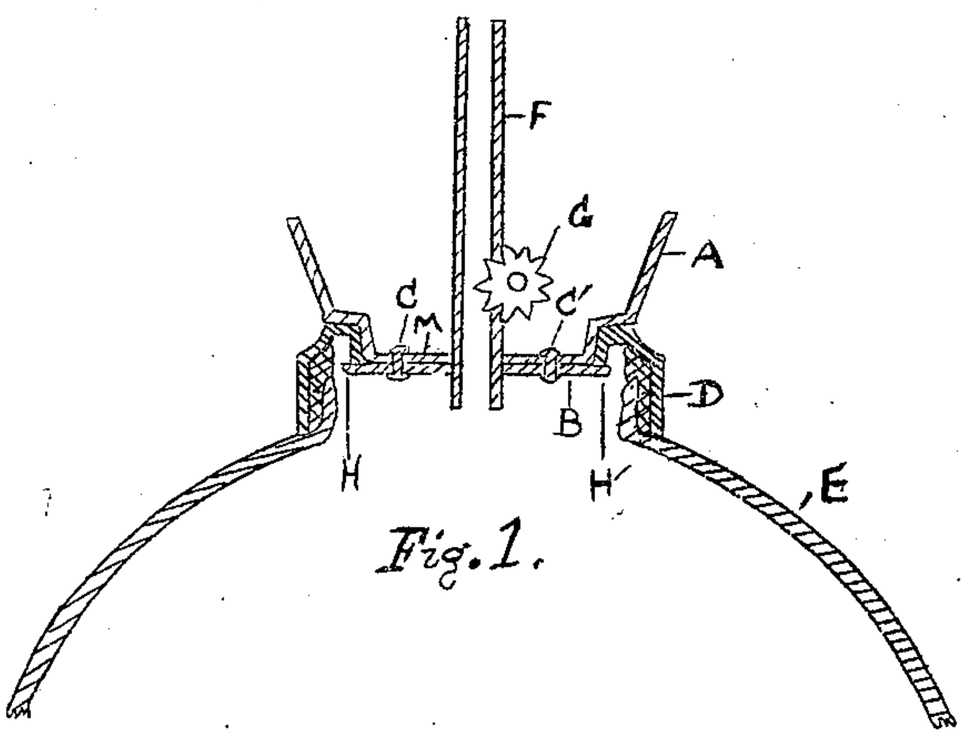


Fig. 1.

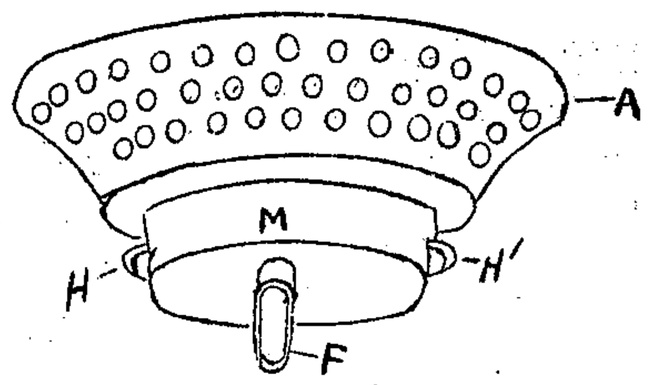


Fig 6.

Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH BELL ALEXANDER, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN DEVICES FOR ATTACHING LAMP-BURNERS TO LAMPS.

Specification forming part of Letters Patent No. **71,261,** dated November 26, 1867.

To all whom it may concern:

Be it known that I, JOSEPH BELL ALEXANDER, of Washington, in the county of Washington, in the District of Columbia, have invented a new and Improved Device for Attaching Lamp-Burners to Lamps; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in providing that part of the burner which ordinarily screws into the collar of the fountain with two or more projections, which easily pass through corresponding notches in the collar, when the burner, by a short turn, may be safely and firmly attached.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I make a burner in any of the known forms, except that part which is usually screwed into the collar attached to the fountain, which I make smooth and without a thread, as seen at M, Figure 6, and which will pass easily into and nicely fit in the neck or throat of the collar D, Figs. 1, 3, and 5, which throat I also make smooth and without a screw-thread. Upon the sides of the part M, as seen in Fig. 6, I make, by attaching, stamping with die, or otherwise, two or more projections, H and H′; or I cut or stamp out a plate with the projections H and H′ on it, as seen in Fig. 4. This plate has two or more holes, C and C′, made through it, by which it is attached by rivets to the bottom of the part M; or it may be attached by solder or otherwise. (See Fig. 2.) Through the top rim or chine of the collar D I make two or more notches, L and L′, Fig. 3, which correspond with the projections H and H′, Figs. 1, 2, 4, and 6, and which notches extend entirely through the throat-piece of the collar D, as seen at L and L′, Fig. 5. This throat-piece I and I′ being, by the notches L and L′, divided into two or more parts, I shape the lower edge of each part into an inclined plane, with the downward projections K and K′ at the deepest end of each, as seen in Fig. 5, to prevent any possibility of the projections H and H′ passing too far when the burner is turned to fasten it in place.

Having described the manner in which the parts are shaped, I will now describe their operation and use. The part M of the burner is placed downward upon the rim N of the collar D, and slightly turned until the projections H and H′ drop through the notches L and L′, when it is pushed home and partly turned or twisted by the hand. The projections H and H′, leaving the notches L and L′, will pass upon the inclined planes I and I′ until the burner is firmly attached to the collar D and to the fountain, as seen in Fig. 1.

Similar letters of reference denote like parts in the several figures.

Fig. 1 represents a vertical section of the burner A, collar D, and fountain E united. Fig. 2 represents, in perspective, an isometrical view of the lower face of the burner A with the plate B attached. Fig. 3 represents, in perspective, an isometrical view of the upper face of the collar D. Fig. 4 represents, in perspective, a view of the plate B before attachment to the burner A. Fig. 5 represents, in perspective, a sectional view of the collar D, showing the throat-piece with its notches L and L′, the inclined planes I and I′, and the downward projections or stops K and K′. Fig. 6 represents, in perspective, a view of the lower part of a lamp-burner, M, with the projections H and H′ as struck up with a die or otherwise made.

The advantages of this device are obvious. Its quickness of action, its simplicity, its certainty, its durability, and safety are recognized at a glance. The common device for attaching burners to lamp-fountains (that of the screw) is tedious, troublesome, uncertain, easily injured and rendered useless, very undurable, and positively dangerous.

My improved device will be easier and cheaper to manufacture than the male and female screw-thread which is now cut upon the burner and collar, and which is the most costly and time-consuming process which attends the manufacture of lamp-burners now in use.

I am aware that this device, as a principle, is not new, as it is used in attaching musket-bayonets, the lids of fruit-cans, and in some

other applications; but I do not know or believe it has ever been before applied to the attaching of lamp-burners to lamp-fountains.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The application of the device for attaching lamp-burners to lamp-fountains, as described and set forth.

2. The projections H and H′, in combination with the burner A, and the notches L and L′, and the inclined planes I and I′, and the projections K and K′, in combination with the collar D, or their equivalent, substantially as described, and for the purpose set forth.

J. B. ALEXANDER.

Witnesses:

EDM. F. BROWN,

C. BESTOR.