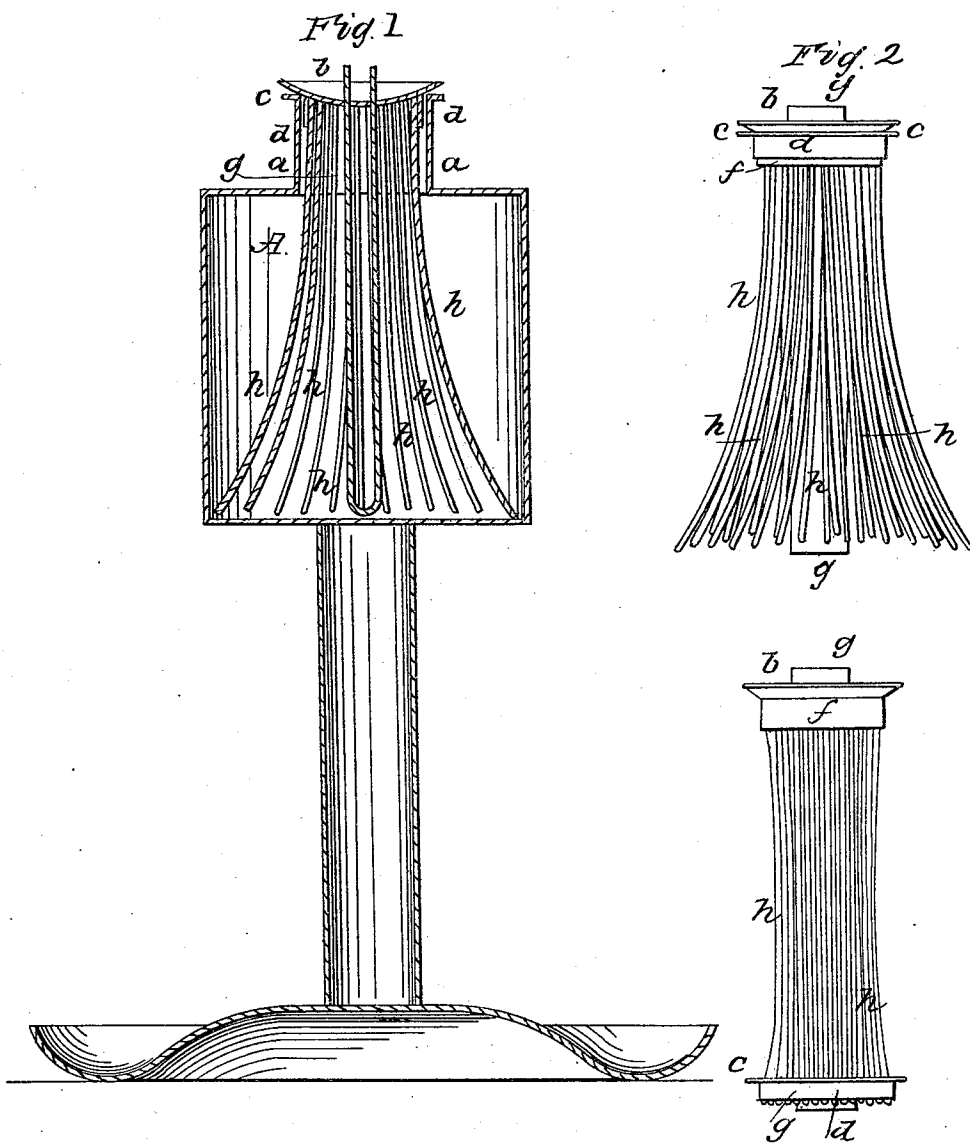


J. S. BROWN.

Lamp.

No. 16,524.

Patented Feb. 3, 1857.



UNITED STATES PATENT OFFICE.

J. S. BROWN, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO JOS. KENT, OF BALTIMORE, MARYLAND.

LARD-LAMP.

Specification of Letters Patent No. 16,524, dated February 3, 1857.

To all whom it may concern:

Be it known that I, J. S. BROWN, of Washington, in the District of Columbia, have invented a new and improved lamp for
5 burning lard or other fatty or concrete oily substances which are at ordinary temperatures in a solid or semifluid state; and I do hereby declare that the following is a full
10 and exact description thereof, reference being had to the accompanying drawings, making part of this specification, Figure 1 being a vertical section of the lamp in the central plane; Fig. 2, a side view of the removable heat-conducting device and the
15 parts connected therewith, all in the position exhibited when in the lamp-body or when first withdrawn therefrom; Fig. 3, a similar view of the same device prepared for reinsertion into the lamp-body.

20 Like letters designate corresponding parts in all the figures.

The lamp body A, is a simple bowl, of any convenient form and size, and supported by any desirable kind of base. The
25 whole may be cheaply and easily made of ordinary sheet tin. From the top of the body A, a tube *a*, say an inch or more in diameter, and of sufficient height to reduce the shadow of the lamp to the limits of its own
30 base, extends upward. Into the top of this fits a ring or band *d*, which is provided, at the top, with a rim *c*, projecting outward over the tube *a*, substantially as shown in the drawings. Into this ring fits another
35 ring *f*, which is provided with a hollow oil cup *b*, the edge thereof extending outward in all directions, about as far as the rim *c*, of the ring *d*. A wick-holder *g*, of the usual construction for lard lamps, is inserted
40 in the center of the oil cup *b*.

To the lower side of the oil cup *b*, and the inner side of the ring *f*, or to either alone, is secured, by solder or otherwise, a considerable number of wires *h*, *h*, which
45 are of sufficient length to reach nearly to the bottom of the lamp body A; and are curved outward, so as to form a flaring brush of wires, substantially as represented in the drawings. The wires should be good con-

ductors of heat, and therefore should most 50 properly be made of copper or brass. The former will answer the purpose of conducting heat rapidly, somewhat better than brass; but the latter is preferable on account of its superior elasticity, so that the 55 brush may retain its flaring form permanently. The cup *b*, and wick-holder *g*, would be better, if also made of brass or copper. But they will well answer their intended purpose if made respectively of 60 sheet-tin and sheet-iron. This brush of wires conducts the heat from the burning wick rapidly to nearly every part of the lamp body and thereby keeps the lard, or other fats, not only in a liquid, but in a considerably heated state; so that the capillary 65 action of the wick raises it as readily as any oil. Thus is overcome the main difficulty in, and almost only objection to, burning lard for procuring light. 70

The arrangement of the double rings above described, completely obviates the only inconvenience which would arise from the use of the brush of wires; that is, the difficulty which, without the device mentioned, would be experienced in replacing 75 the brush in the lamp body, after taking out for the purpose of filling the lamp with lard. When the brush is taken out, the loose ring *d*, is withdrawn with it, as represented in 80 Fig. 2. After filling the lamp, the said ring *d*, is pushed down to the lower ends of the wires, thereby collecting them into a close bundle, as shown in Fig. 3. The ring is then inserted into the top of the tube *a*, and 85 the brush afterward pushed down into the lamp, the wires immediately separating into their usual positions as soon as released from the ring *d*.

What I claim as my invention and desire 90 to secure by Letters Patent is—

The loose ring *d*, in combination with the brush of wires, for the purpose herein set forth.

J. S. BROWN.

Witnesses:

GEORGE W. ADEMY,
RUFUS F. OSGOOD.