

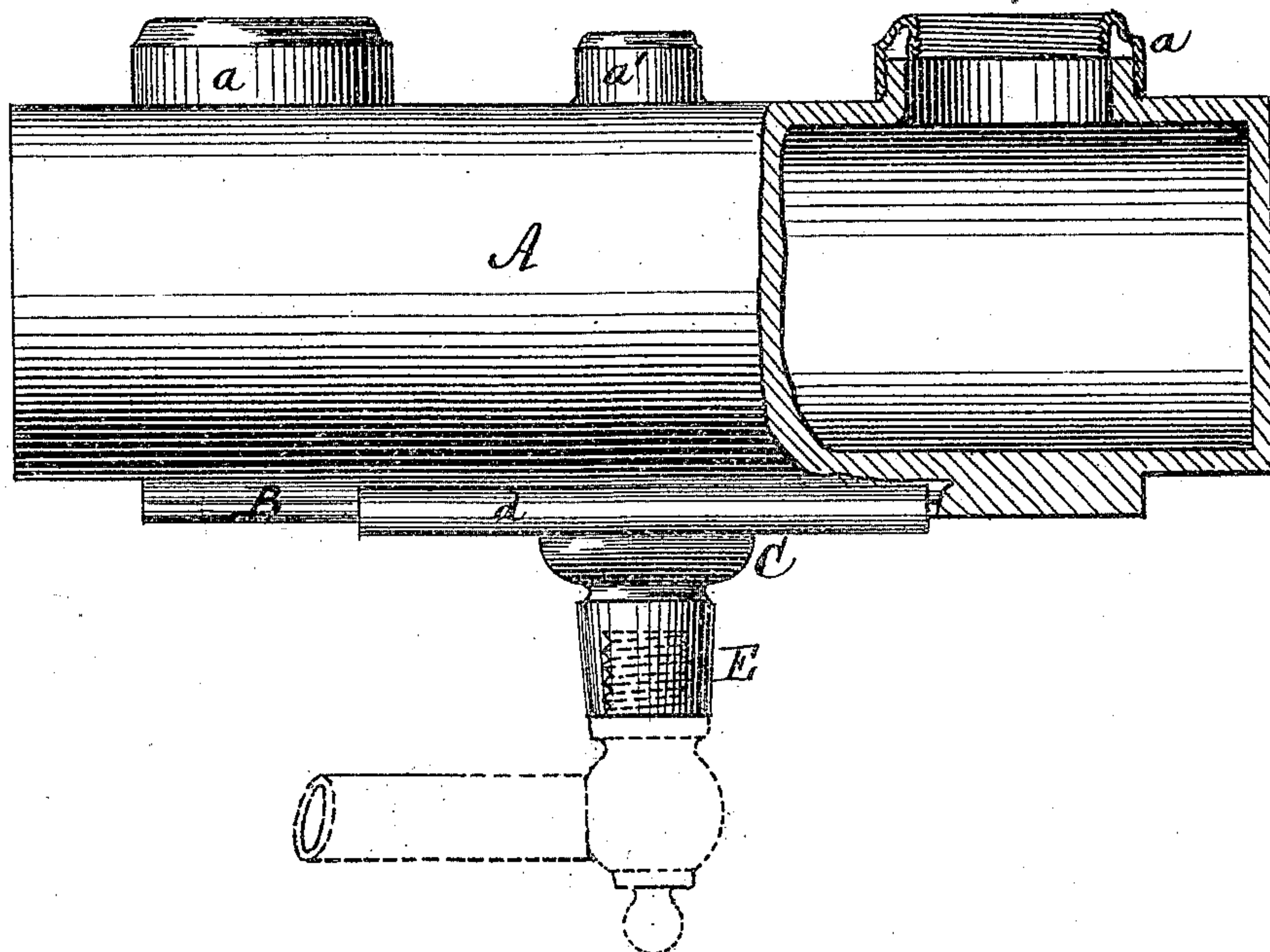
G. W. HADFIELD & F. E. CLARK.

LAMP.

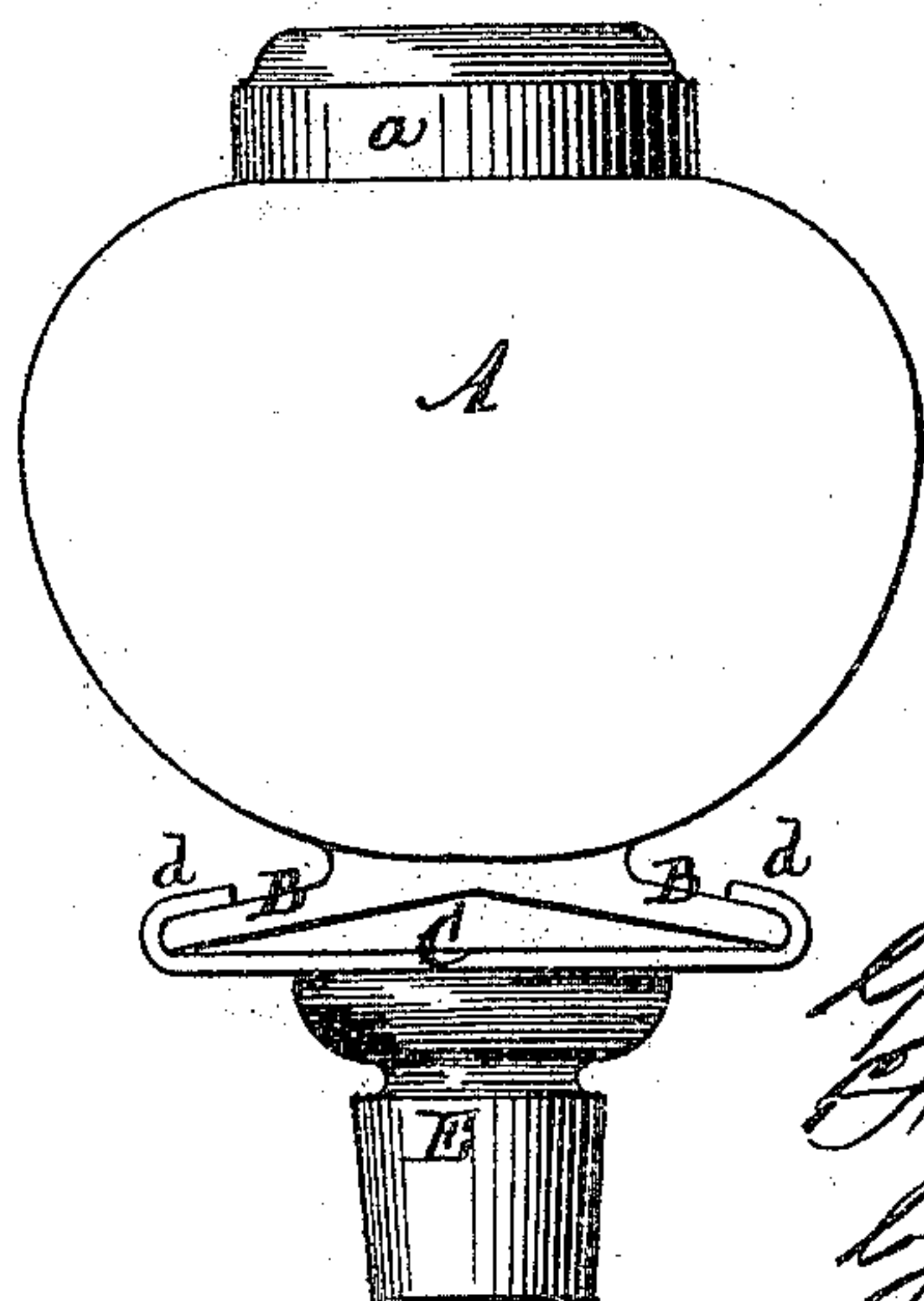
No. 172,429.

Patented Jan. 18, 1876.

*Fig. 1.*



*Fig. 2.*



Witnesses

*John Becker*  
*Fred. Haynes*

*G. W. Hadfield*  
*F. E. Clark*  
*by their Attorneys*  
*Brown & Allen.*

# UNITED STATES PATENT OFFICE.

GEORGE W. HADFIELD AND FRANK E. CLARK, OF BROOKLYN, N. Y.

## IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. 172,429, dated January 18, 1876; application filed December 22, 1875.

*To all whom it may concern:*

Be it known that we, GEORGE W. HADFIELD and FRANK E. CLARK, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Lamps; and we do hereby declare that the following is a full, clear, and exact description of the same.

Our invention consists in a novel construction and combination of a lamp fount or reservoir and a holder for the same, whereby provision is made for attaching said holder to a gas fixture or bracket, and for readily connecting and disconnecting the lamp to and from the holder.

In carrying out our invention we construct the fount or reservoir with two parallel ribs or flanges on or near its bottom, extending laterally in opposite directions.

The lamp-holder consists of a plate having its edges turned upward and then inward toward each other for engagement with the ribs or flanges on the lamp, so as to overhang and clamp the same, so that the lamp may be made to slide in the holder in order to connect or disconnect the two parts; or, instead of the overhanging edges, the holder may be provided with lugs or lips on one side and a screw on the other, after the manner of a shade-holder. The lamp-holder is provided with a socket having an internal screw-thread corresponding with the threads by which gas-burners are attached to ordinary gas fixtures or brackets, so that the lamp may be readily connected to and supported by a burner arm or bracket by removing the burner and attaching the lamp-holder in its stead.

The accompanying drawing illustrates a mode of carrying out our invention, Figure 1 being a side view, with a portion of a burner-arm shown in dotted lines; and Fig. 2, an end view of the lamp and holder.

The fount or reservoir A may be of any suitable material, but it is preferably transparent in order to present little or no obstruction to the downward passage of the light. It may be of any ordinary or suitable form, but for some purposes it may be desirable to have it of greater length than width, as shown in the drawing, and provided with two or more burner-caps, *a a*, and a feeding-cap, *a'*. On or

near the bottom of the fount are two ribs or flanges, B B, which extend laterally in opposite directions, and run about parallel with each other longitudinally for any suitable distance. The lamp-holder consists of a plate, C, of cast or sheet metal, or other suitable material, having its edges *d d* turned upward and then inward toward each other, so as to clamp or overhang the edges of the flanges B B when in contact therewith. When made in this form the lamp is connected with or removed from it by sliding the flanges B B on the plate C, and between and under the turned-in edges *d d*. When the holder is provided with lugs on one side and a screw on the other, as before mentioned, the lamp is held in place by tightening the screw and released by loosening it. The lamp-holder is provided on its bottom with a socket, E, which may be made in one piece with the plate C, or attached in any suitable manner. On the internal surface of this socket is a screw-thread corresponding with the threads by which gas-burners are attached to arms or brackets. By removing the burner from its seat the lamp-holder C may be readily screwed onto one of these arms or brackets in place of the burner, and thus provide for supporting the lamp A by said arm or bracket.

By the use of this invention the occupants of stores, dwellings, or other buildings are enabled to utilize their gas-fixtures in cases where they are not supplied with gas or prefer to use oil instead thereof; and the peculiar construction of the lamp enables it to be readily detached from the holder and carried about or used in the same manner as an ordinary lamp.

What we claim as new, and desire to secure by Letters Patent, is—

The combination, with a lamp constructed with flanges, as described, of a lamp-holder provided with a socket for attaching it to a gas-burner arm or bracket, and having turned-in edges or lugs for embracing the flanges on the lamp, substantially as herein set forth.

GEORGE W. HADFIELD.  
FRANK E. CLARK.

Witnesses:

MICHAEL RYAN,  
FRED. HAYNES.