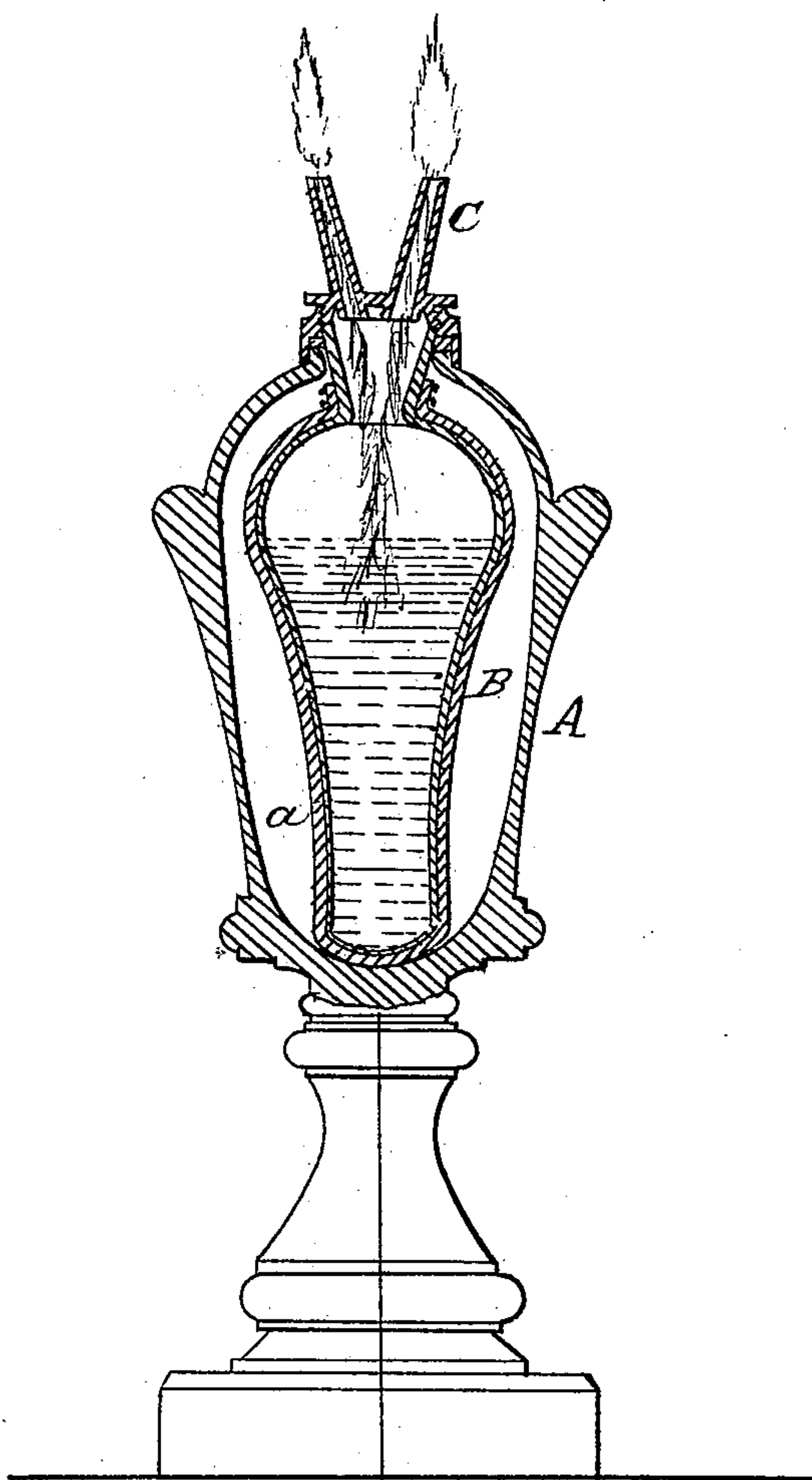


W. BENNETT.

Lamp.

No. 13,860.

Patented Nov. 27, 1855.



UNITED STATES PATENT OFFICE.

WM. BENNETT, OF BROOKLYN, NEW YORK, ASSIGNOR TO THE UNION INDIA RUBBER LAMP COMPANY.

FLUID-LAMP.

Specification of Letters Patent No. 13,860, dated November 27, 1855.

To all whom it may concern:

Be it known that I, WILLIAM BENNETT, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Lamps for Burning Spirit-Gas and other Hydrocarbon Fluids; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing, making a part of this specification, said drawing being a vertical section of my improvement, the plane of section being through the center.

The nature of my invention consists in placing within an ordinary glass or metal lamp or within a suitable frame or support, an india rubber or other suitable elastic receptacle to receive and hold the spirit gas or other fluid, said receptacle having the usual wick tubes attached to it in any proper manner.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents a lamp of ordinary construction, and, B, represents a bag or receptacle which is placed within the body of the lamp. This bag or receptacle should be constructed of india rubber or other suitable elastic material and lined inside with gutta percha, bladder or other substance which will protect the substance of which the bag or receptacle is constructed from the action of the fluid. The upper part of the bag or receptacle, B, is attached in any proper manner to the sides of the orifice of the lamp and a space (*a*) is allowed between the outer side of the bag or receptacle and the body of the lamp as clearly shown in the drawing.

The wick tubes, C, are attached to the upper part of the lamp so as to communicate with the bag or receptacle, B.

The ordinary fluid lamp or those which

burn hydro-carbon fluids often burst in consequence of the pressure exerted against them by the gaseous substance generated within the body of the lamp by the heat of the flame, various plans have been devised to obviate this difficulty, A metallic reservoir has been placed within the body of the lamp and encompassed by water in order to keep the fluid at a low temperature; but this plan augmented the cost of the lamp to a considerable extent, vents have also been made in the upper part of the lamp to allow the vapor or gas to escape but this caused a great waste of fluid. By my improvement the difficulty is obviated at a small cost and without any waste of fluid, for the bag or receptacle will expand under the pressure of the gas or vapor and consequently will not break or burst, and in case the lamp should be casually broken the bag or receptacle will retain the fluid and prevent accidents which frequently occur from that cause.

This improvement may be applied to any form of lamp constructed of either of the materials now employed; or the bag or receptacle may be encompassed by a framing or support and not be placed in a lamp. The placing of the bag or receptacle within an ordinary lamp would be preferable however.

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

The elastic bag or receptacle B, placed without the body of a lamp or within a proper framing or support to receive and hold the fluid substantially as described for the purpose specified.

WM. BENNETT.

Witnesses:

S. H. WALES,
O. D. MUNN.