

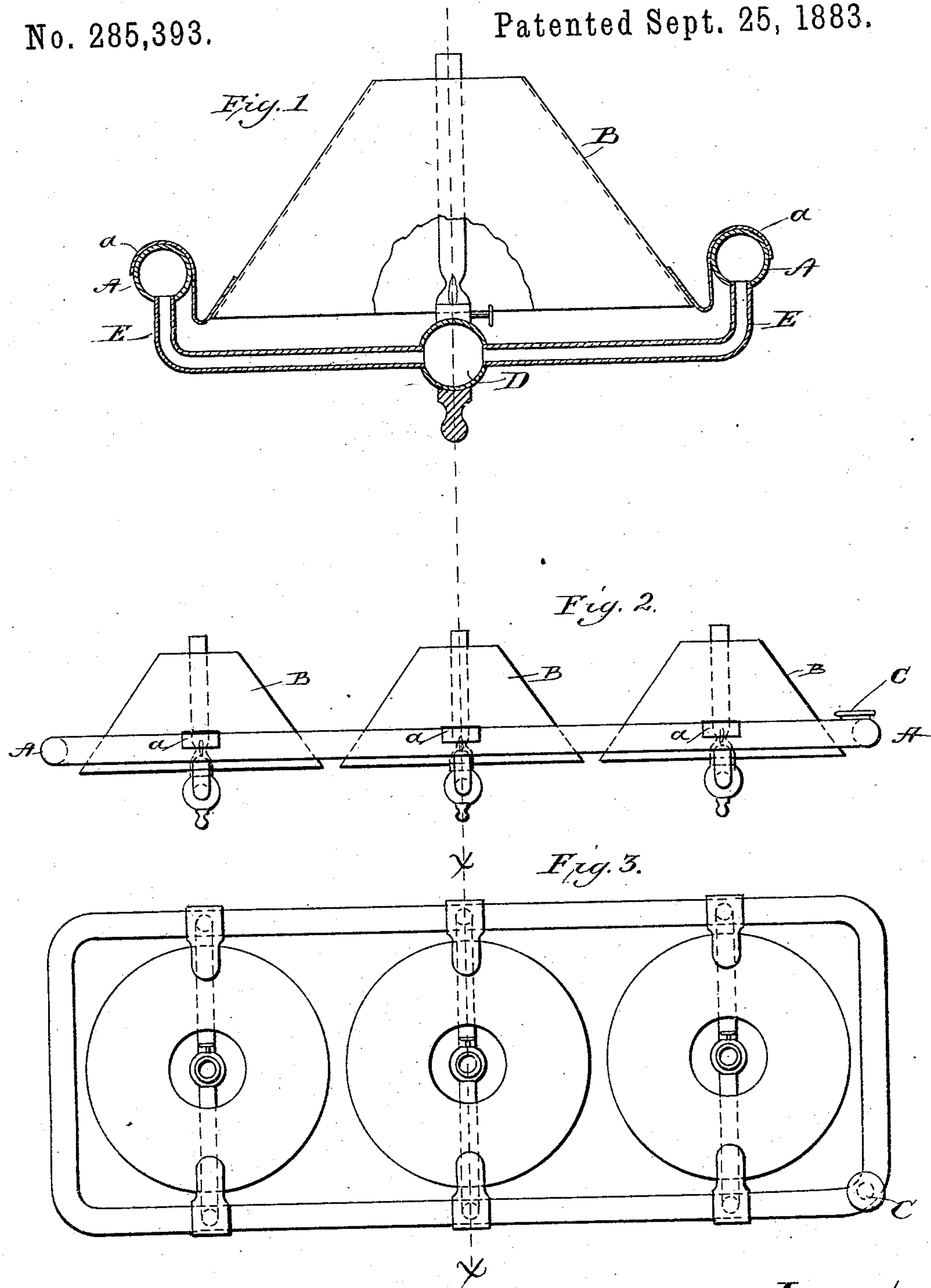
(No Model.)

C. F. CHEW.

LAMP.

No. 285,393.

Patented Sept. 25, 1883.



Witnesses;
Wm H. Kellogg
Wm D. Bishop

Inventor.
Charles F. Chew
By Atty. Wooster Smith.

UNITED STATES PATENT OFFICE.

CHARLES F. CHEW, OF BRIDGEPORT, CONNECTICUT.

LAMP.

SPECIFICATION forming part of Letters Patent No. 285,393, dated September 25, 1883.

Application filed January 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. CHEW, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Lamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in devices for illuminating purposes, and has for its object to provide a reflecting-lamp, or a series of such, in which the reservoir containing the oil shall be entirely out of the angles of reflection, shall not rest upon or in any way interfere with the removal or adjustment of the reflectors, and at the same time may be refilled without disturbing the lamps; and with these ends in view my invention consists in the details of construction and combination of elements hereinafter fully described, and then specifically designated by the claims.

In order that those skilled in the art to which my invention appertains may understand more fully how to make and use my improved device, I will proceed to describe the same in detail, referring by letters to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a central vertical section taken at the line *xx* of Fig. 3; Fig. 2, a side elevation, showing the reflectors mounted on the reservoir; and Fig. 3, a plan or top view.

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

In lamps of this description the main object is to get as strong a reflection as possible; but heretofore the bodies of the lamps have been reservoirs, and the reflectors have been placed on skeleton frames intervening between said reflectors and the area to be illuminated, which detracts greatly from the power and consequent effect of the reflected rays; or the reflectors have been constructed so as to form a part of the reservoir, which renders care of the lamps, removal of the reflectors, &c., a matter of considerable difficulty.

In my improvement I overcome these difficulties by constructing my reservoir in the form of a tube, which extends around the reflectors B, and without all the angles of reflection. As will be seen by reference to the

drawings, the reflectors are mounted on said tube by lugs *a* in such manner as to be readily taken off and polished, and one or more apertures, C, are located at any convenient point or points in said tube, by means of which oil is furnished to all the lamps in the manner presently explained.

D are independent wick-chambers, and E conducting-pipes extending inwardly from the reservoir A, and below the level or plane thereof, into said wick-chambers, so that it will be readily understood that the supply of oil in the reservoir may be completely exhausted before it becomes necessary to refill the same.

My improved lamp is especially designed for use over billiard-tables, and gives an illumination superior to that afforded by gas, and at less cost.

One of the most desirable features of my invention is that comparatively little care is required in its use, while the lamps are all filled at one operation; also, the danger of explosion is greatly decreased, as the gases cannot collect in any great quantity, owing to the absence of the ordinary bulky reservoir in the body of the lamp.

I am aware that it is not new, broadly, to provide one or more reflecting-lamps for the purpose above mentioned, and do not desire to be understood as laying claim to any such construction; but

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

1. In a reflecting-lamp, the circumferential reservoir-tube A, adapted to independently support the reflectors, and having projecting inwardly therefrom and below the plane thereof a series of radial arms, E, leading into the independent wick-chambers, whereby a series of lights may be supplied from a common reservoir, substantially as set forth.

2. In a reflecting-lamp, the circumferential reservoir A, consisting of an independent pipe having radial arms D projecting inwardly therefrom, as described, and adapted to independently support the reflectors at a point above the reflected rays, substantially as shown.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES F. CHEW.

Witnesses:

WM. H. KELSEY,

WM. D. BISHOP, Jr.