

(No Model.)

J. G. MILLER.

GAS BURNER.

No. 266,634.

Patented Oct. 31, 1882.

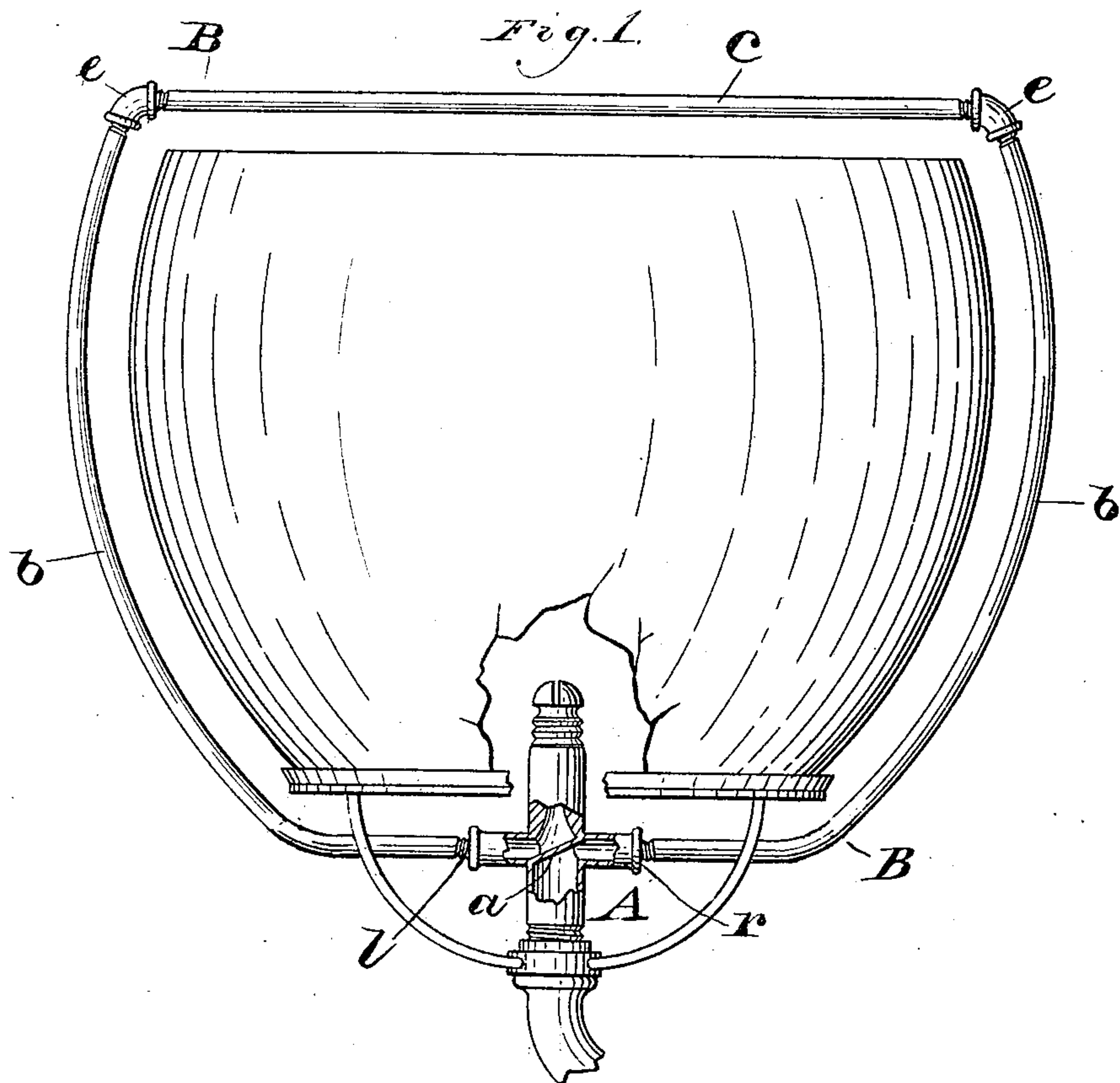
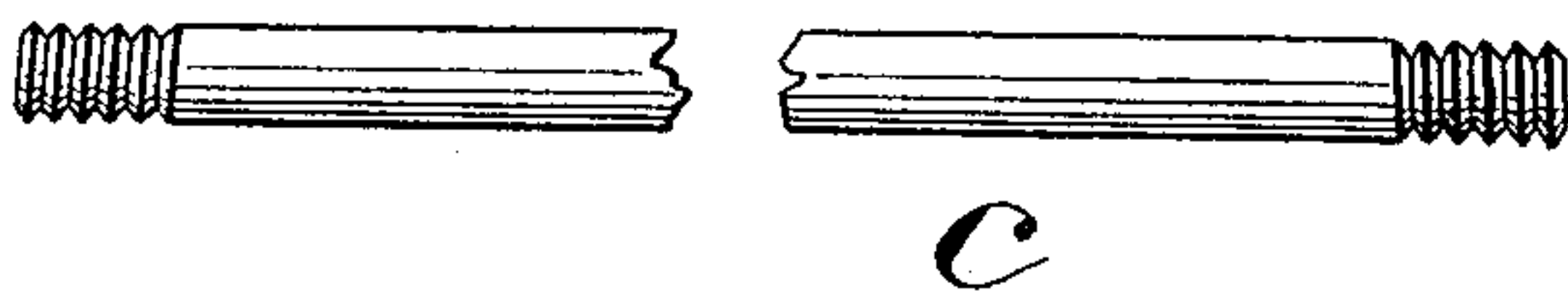


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

JAMES G. MILLER, OF GREEN BAY, WISCONSIN.

GAS-BURNER.

SPECIFICATION forming part of Letters Patent No. 266,634, dated October 31, 1882.

Application filed March 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES G. MILLER, a citizen of the United States of America, residing at Green Bay, in the county of Brown and State of Wisconsin, have invented certain new and useful Improvements in Gas-Burners, of which the following is a specification.

My invention relates to that class of gas-burners in which the gas, before escaping at the burner-orifice, is made to pass through a small tube above the flame for the purpose of expanding and thus improving the combustion of the same.

Heretofore the small tube in this class of gas-burners has been made in a continuous piece, with the ends secured rigidly in the burner by soldering or similar means, rendering it very difficult to remove the same for cleaning, which frequently becomes necessary from the clogging of said tube by particles of carbon or other particles contained in the gas. The object of my invention is to overcome this difficulty by making the pipe in parts, screwed together by means of "right" and "left" threads, in the manner hereinafter fully described.

In the accompanying drawings, Figure 1 is a side elevation, partly in section, of a gas-burner of this class embodying my invention; Fig. 2, a detailed view, referred to hereinafter.

Similar letters refer to similar parts throughout the several views.

A represents the burner, divided in the customary manner by a web, *a*.

B B is the small tube, composed of side pieces, *b b*, and top piece, *c*, connected by elbows *e e*. The lower ends of the side pieces, *b b*, are screwed into the burner at *r* and *l*, connecting respectively with the different compartments of the burner. The upper ends are provided with elbows *ee*, into which are screwed the ends of the top piece, *c*, one end of which

is provided with a right and the other with a left hand thread, as shown in Fig. 2, the respective elbows being "tapped out" to suit. By this arrangement the parts may be readily attached or be removed for cleaning, which may be done by passing a piece of wire or similar article through the various parts.

If desired, the several parts of the tube may be connected in the ordinary manner and the ends at *r* and *l* be provided respectively with right and left hand threads. By this arrangement the tube could be easily removed from the burner, said burner being detached, without the use of a wrench or tongs, by holding the tube at the top part, *c*, and turning it upon an axis passing through *r* and *l*.

The advantages of this construction will be evident from the above description with reference to the drawings.

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

1. A gas-burner, A, having partition *a*, in combination with a tube, B B, connected thereto by means of right and left threads in such a manner that it may be readily removed, substantially as shown and described.

2. In a gas-burner, a tube, B B, composed of pieces *b b*, connected together by piece *c*, provided with right and left threads, substantially as described and shown, and for the purpose set forth.

3. In a gas-burner, the combination of the side pieces, *b b*, top piece, *c*, and elbows *e e*, with the gas-burner A, having partition *a*, substantially as shown and described.

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

JAMES GEDNEY MILLER.

Witnesses:

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