

(No Model.)

P. J. McELROY.
ATOMIZER.

No. 433,954.

Patented Aug. 12, 1890.

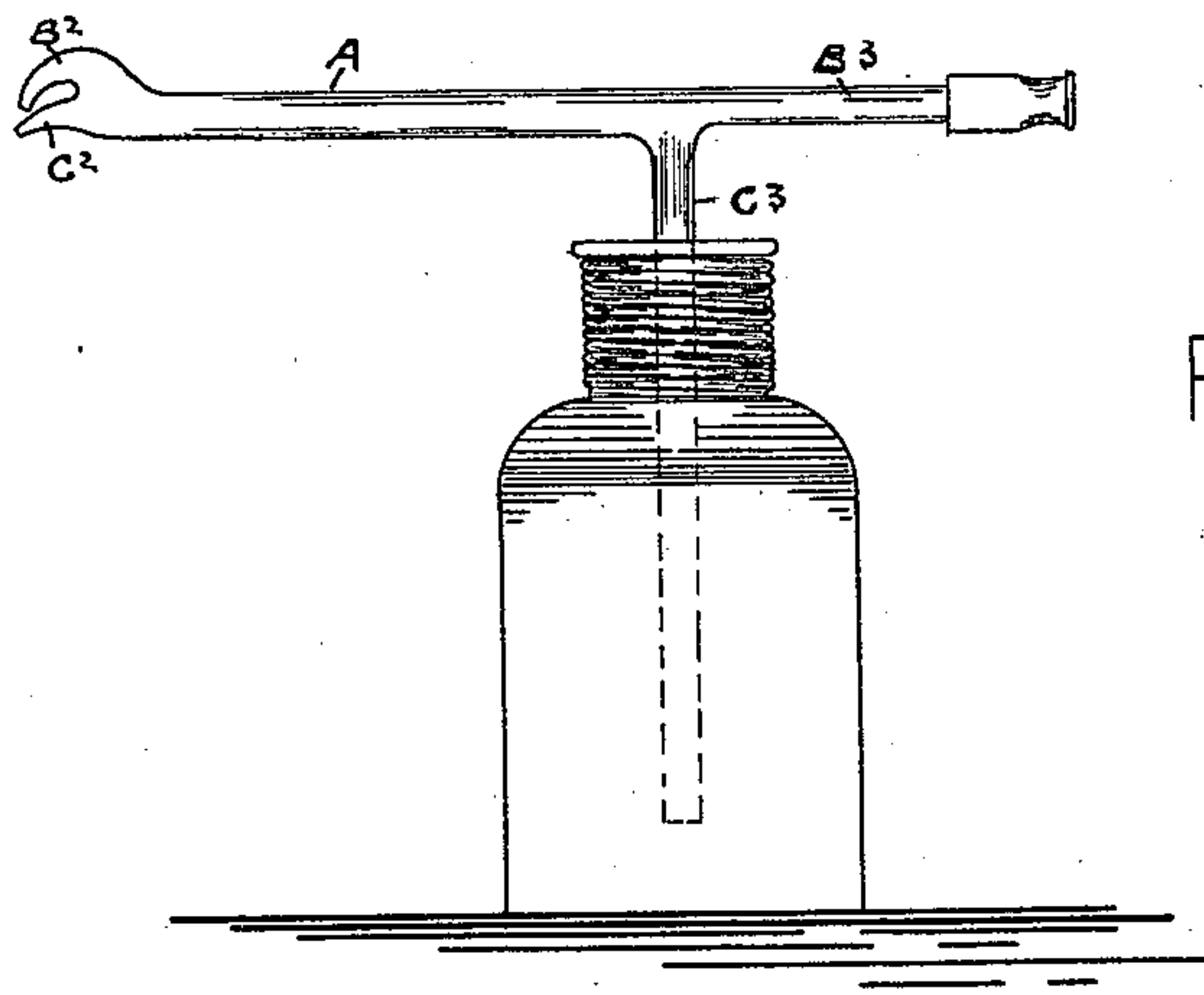


Fig. 1.

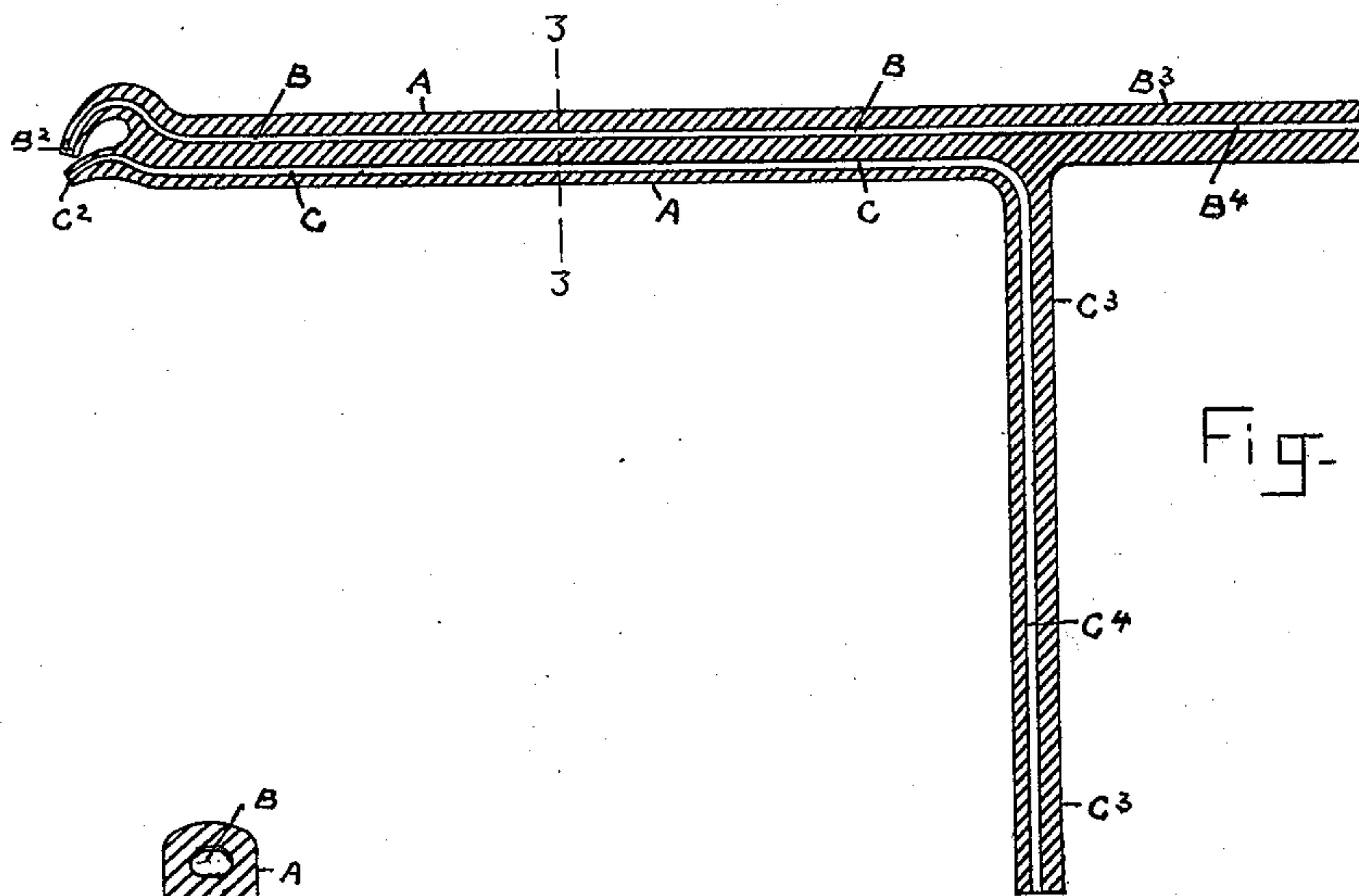


Fig. 2.

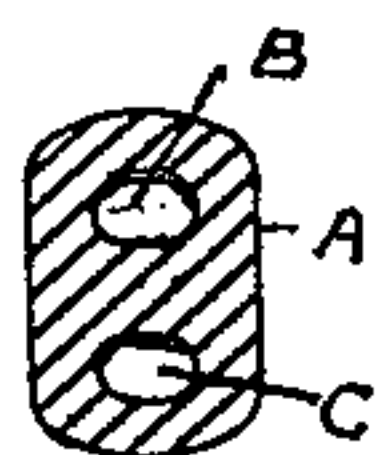


Fig. 3.

WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

PATRICK J. McELROY, OF CAMBRIDGE, MASSACHUSETTS.

ATOMIZER.

SPECIFICATION forming part of Letters Patent No. 433,954, dated August 12, 1890.

Application filed March 25, 1890. Serial No. 345,297. (No model.)

To all whom it may concern:

Be it known that I, PATRICK J. McELROY, a citizen of the United States of America, and a resident of the city of Cambridge, in the
5 county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Atomizers, of which the following is a full, clear, and exact description.

This improvement in atomizers consists of
10 a barrel made of one piece of glass and having two separate and independent passages running lengthwise of it, and each at one end of the barrel provided with a nozzle, both presented toward each other, as well known
15 in atomizers, in combination with a continuation of said barrel, which is made of glass and extends from its end opposite to that having the nozzles, as stated, and is in two parts or lengths, each having a passage
20 lengthwise through it in continuation of a passage of said barrel, and one in line with and the other at an angle to and off from one side of the barrel.

In the drawings forming part of this specification, Figure 1 is a side elevation of an atomizer-tube of this invention and in position in a bottle for use. Fig. 2 is a central longitudinal section, on an enlarged scale, of the atomizer-tube of this invention detached.
30 Fig. 3 is a transverse section on line 3 3, Fig. 2.

In the drawings, A is a barrel blown or otherwise suitably produced from glass and in one piece, and B C are two separate and independent passages leading lengthwise of
35 said barrel. Each passage B C, at one end of the barrel A, terminates in separate nozzles B² C², respectively, and the orifices of the nozzles are presented in directions crossing each other and at a common point, as well
40 known in atomizers.

The barrel A at its end opposite to that having the nozzles has a continuation which is made of glass, and practically of one piece with the barrel, and is in two parts or lengths
45 B³ C³. One length B³ is in line with and the other length C³ is at an angle to and off from one side of the barrel A. Each of the lengths B³ C³ has a passage B⁴ C⁴, respectively, leading through it from end to end, and the pas-

sage B⁴ is in continuation of the passage B, 50 and the passage C⁴ is in continuation of the passage C of the barrel A.

The barrel A, with its two separate passages B C and its two continuations B³ C³, each with a separate passage B⁴ C⁴, and continuous, respectively, with the passages B C 55 of the barrel A, and all embodied substantially in one piece of glass, constitute an atomizer-tube of the greatest simplicity, compactness of construction, and arrangement 60 for use, and one that is most especially advantageous in many other respects, and too obvious to mention.

The application or use of the atomizer-tube of this invention is obvious without particular 65 explanation.

This invention relates solely to an atomizer-tube such as has been described. A multiplex glass tube making part thereof is the subject of a separate application, Serial No. 70 353,635 for Letters Patent of the United States.

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

An atomizer-tube composed of a barrel A, made of glass in one piece and having two separate and independent passages B C, extending lengthwise through it, and each provided at one end with a nozzle B² C², in combination with a continuation which is made 80 of glass and practically in one piece with and is at the end of the barrel opposite to that having said nozzles and in two lengths B³ C³, one B³ in line with and the other C³ at 85 an angle to and off from one side of the barrel, and both having passages B⁴ C⁴, respectively, leading through them from end to end, and each in continuation of a passage of the barrel, substantially as described, for the purposes specified. 90

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

PATRICK J. McELROY.

Witnesses:

ALBERT W. BROWN,
HENRY F. McKEEVER.