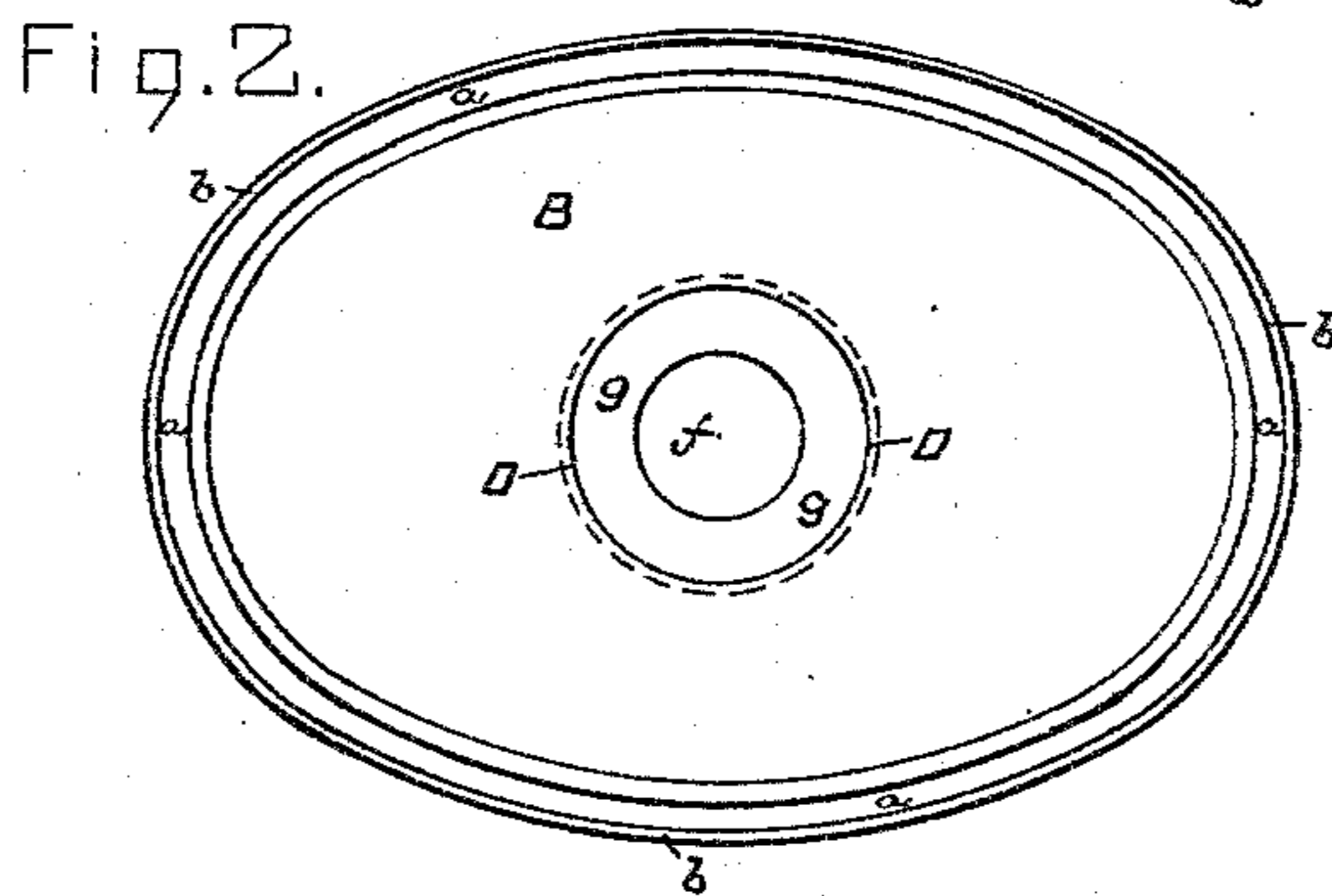
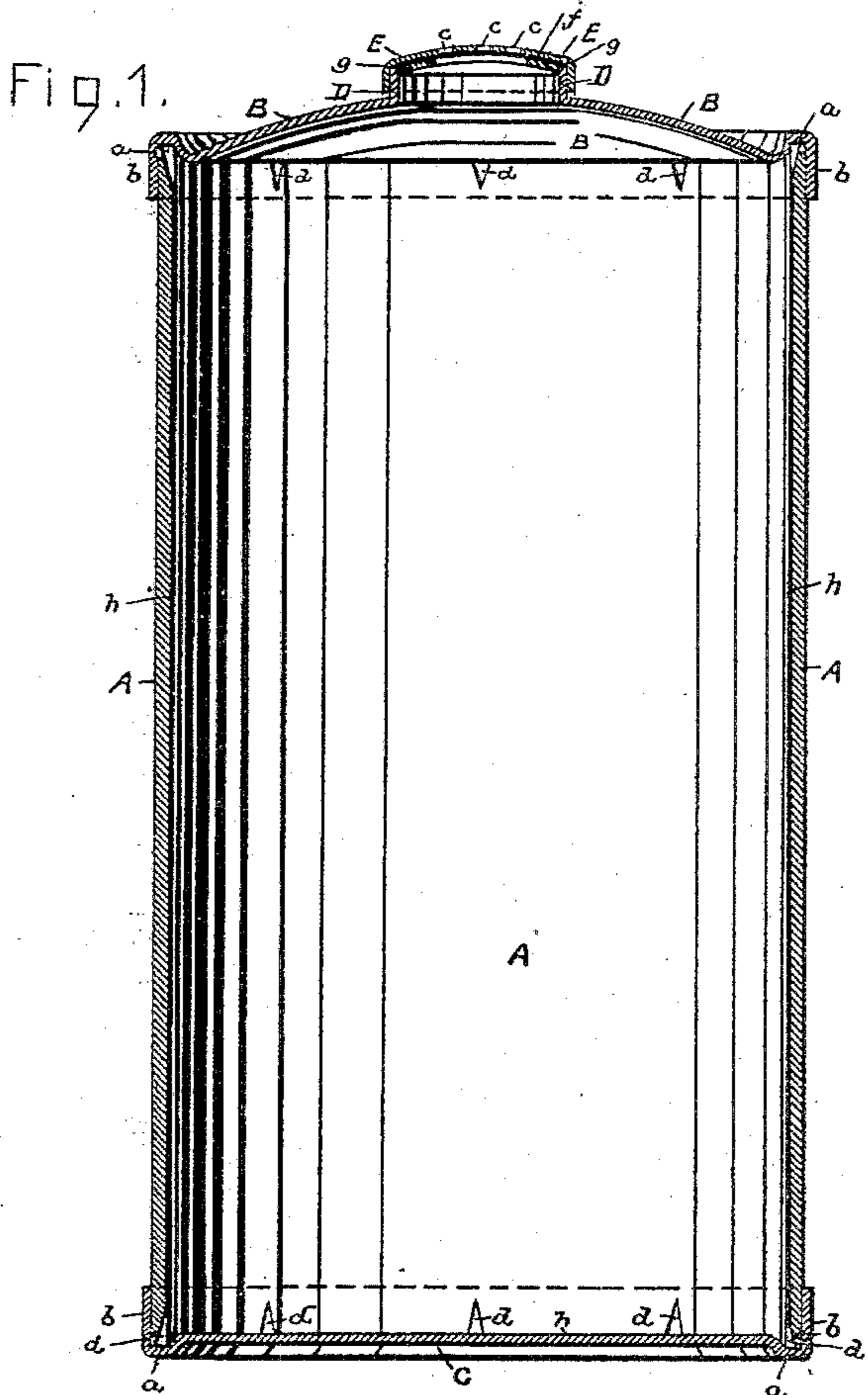


(No Model.)

J. C. CHAMBERLAIN.
BOTTLE FOR LIQUID BLUING.

No. 412,366.

Patented Oct. 8, 1889.



WITNESSES.

A. E. Buchanan,
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INVENTOR.

Jeremiah C. Chamberlain
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UNITED STATES PATENT OFFICE.

JEREMIAH C. CHAMBERLAIN, OF CHELSEA, MASSACHUSETTS, ASSIGNOR TO
THE SAWYER CRYSTAL BLUE COMPANY, OF SACO, MAINE.

BOTTLE FOR LIQUID BLUING.

SPECIFICATION forming part of Letters Patent No. 412,366, dated October 8, 1889.

Application filed July 16, 1888. Serial No. 280,127. (No model.)

To all whom it may concern:

Be it known that I, JEREMIAH C. CHAMBERLAIN, of the city of Chelsea, in the county of Suffolk and State of Massachusetts, have
5 invented new and useful Improvements in Bottles for Liquid Bluing, &c., of which the following is a full, clear, and exact description.

This invention relates to an improved bottle or package to be used for containing
10 liquid bluing, ink, and other liquids or substances which it is desirable to put up in packages for convenience, storage, exhibition, transportation, sale, and use, and in which they will not deteriorate by evaporation or other cause. In the production of
15 such packages cheapness and strength, combined with lightness and non-liability to fracture, are most desirable elements, and it is to the end of producing a bottle or package practically combining all the essentials
20 above named that this invention pertains.

The improved bottle and package of this invention consists, in substance, of a body of cylindrical shape made of paper-board
25 or such like material and having notches at its opposite ends, and heads or ends to said body made of sheet metal, and each head grooved or channeled to receive the notched ends and having a flange to surround the
30 outside of the body, and the whole lined with a cement of a resinous or bituminous nature, or such like, filling said notches and grooves and securing the body and heads together, and all otherwise substantially as
35 hereinafter described.

In the drawings forming part of this specification, Figure 1 is a central vertical section of the improved bottle or package, and Fig. 2 is a plan view of the top head removed.

40 In the drawings, A is the body, and B and C are the opposite ends or heads thereto. The body A is made of pasteboard or other such like material, and is of a cylindrical or other suitable shape, and is open at each end, and there receives the ends or heads B C.
45 The heads B C are made of sheet metal, and each is stamped out into the proper shape and with a groove or channel *a*, to receive the open ends of the body, and a flange *b*, to sur-

round and preferably tightly fit about the 50 outside of the body.

The body A at each end has notches *d*, making channels of communication between the heads and the bottoms of the grooves of the heads, and which receive the ends or 55 heads.

The head B has a short central discharge-tube D, preferably in one piece therewith, and this tube D has a cap E closing it, perforated at *c*, and these perforations closed 60 by an inner layer *f*, of paper or other such like material, which is secured against the inner side of the cap and between it and the inwardly-projecting flange or ring *g*. This ring *g* is made of metal and separate 65 from the discharge-tube D, and its external diameter is such that it can be inserted in and tightly fit and be confined by the walls of the tube. This flange *g* forms a sealing-surface to which the paper layer can be ce- 70 mented, and thus it can be the better secured to the cap.

The bottle described is to be lined, as at *h*, with resinous or other bituminous cement or suitable material to render it impervious to 75 moisture and to the evaporation or other deterioration of its contents, and this cement as applied serves to unite body and head together, the union being still more insured by the running of the cement into and 80 through the notches *d* of the ends of the body and between the ends and the bottoms of the grooves.

The bottle or package described obviously embraces all the essentials stated. 85

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

1. A bottle or package for liquid bluing, &c., composed of a body A, made of paper- 90 board, having notches *d* at its ends, heads B C, made of sheet metal and each having a groove *a*, to receive the ends, and a flange *b*, to surround the outside of the body, and a lining *h*, of resinous or other bituminous cement, filling said notches *d* and grooves *a*, sub- 95 stantially as described, for the purpose specified.

2. A bottle or package for liquid bluing,
&c., having a discharge-tube D, in combina-
tion with a flange or ring *g*, separate from
and inserted in and tightly fitting said tube,
5 a layer *f* of paper cemented to said flange and
closing said tube, and a perforated cap E, fit-
ting over said tube and seated on said paper
layer *f*, substantially as described, for the pur-
poses specified.

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

J. C. CHAMBERLAIN.

Witnesses:

ALBERT W. BROWN,
FRANCES M. BROWN.