(No Model.)

M. A. BOESGER & F. V. DOTTERWEICH.

INHALER.

No. 530,321. Patented Dec. 4, 1894.

Fig. 1.

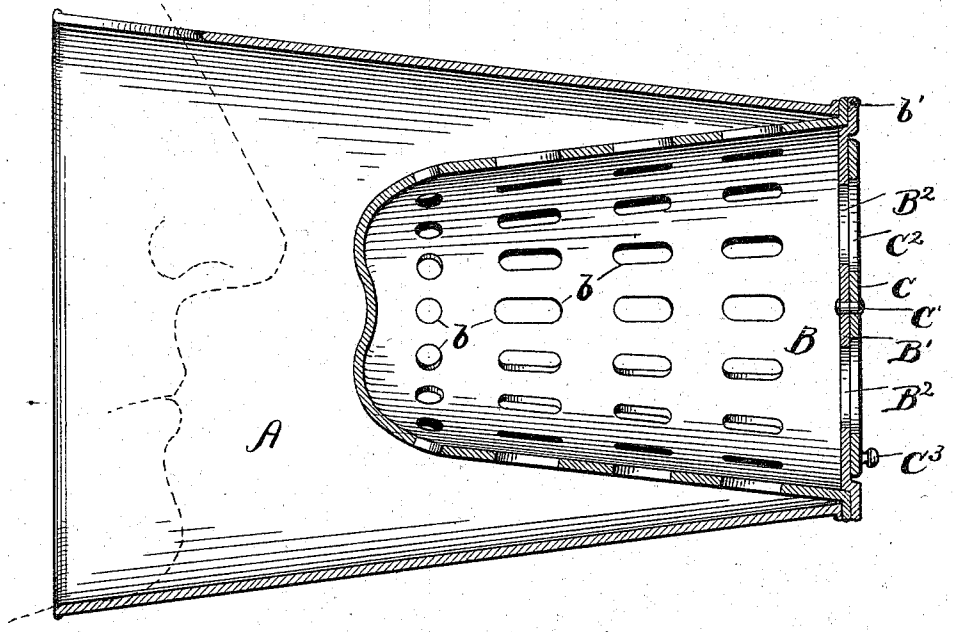
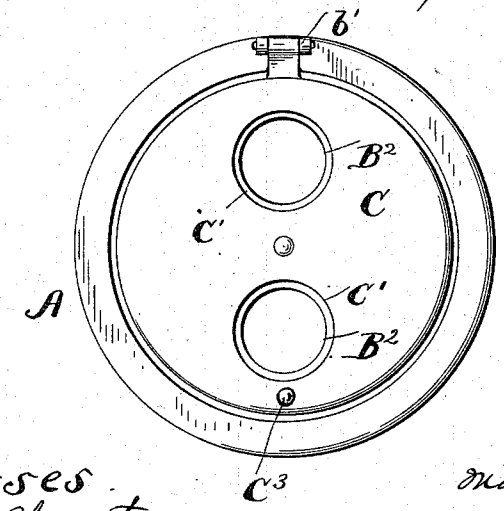


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

MAX A. BOESGER AND FREDERICK V. DOTTERWEICH, OF CLEVELAND, OHIO.

INHALER.

SPECIFICATION forming part of Letters Patent No. 530,321, dated December 4, 1894.

Application filed February 23, 1894. Serial No. 501,128. (No model.)

To all whom it may concern:

Be it known that we, MAX A. BOESGER and FREDERICK V. DOTTERWEICH, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Inhalers; and we 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 pertains to make and use the same.

Our invention relates to improvements in inhalers; and it consists in certain features of construction and in combinations of parts hereinafter described and pointed out in the claims; the primary object being to construct an inhaler with a removable cup or receptacle for receiving the substance or matter to be inhaled, which cup or receptacle extends into the shell or case of the device that is placed in position over the nose and mouth of the patient.

In the accompanying drawings, Figure 1 is a side elevation in central section of an inhaler embodying our invention, showing the manner of applying the device. Fig. 2 is an outer end elevation of the same.

Referring to the drawings, A designates the surrounding or inclosing shell or case of the inhaler, the same being constructed in any approved manner to render it capable of being placed in position over the nose and mouth of the patient. A cup or receptacle B, for receiving the substance or matter to be inhaled, is suitably supported from the outer end of shell or case A and extends a suitable distance into said case or shell. The sides of cup or receptacle B are provided with holes or perforations *b* for permitting the gases to be inhaled by the patient to escape from said cup or receptacle into the interior of shell or case A from which the gases are inhaled by the patient.

Cup or receptacle B, at its outer end, is adapted to be closed by a lid or cover B′ that is suitably hinged to the cup or receptacle, as at *b′*. Said lid or cover is provided with one or more perforations, B^2, for permitting, when desired, the escape of some of the gases into the external atmosphere, or for permitting the ingress of air to the cup or receptacle. Holes or perforations B^2 in lid or cover B′ are adapted to be closed or opened more or less as desired by a valve or damper, C, that is preferably pivoted, at its central portion, as at C′, to the lid or cover, said damper or valve being provided with one or more holes or perforations C^2 adapted to register with the holes or perforations B^2 in the lid or cover, and being preferably provided with a thumb-piece C^3 for turning the same.

By the construction just described, it will be observed that more or less gas from within cup or receptacle B is permitted to escape into the external atmosphere, or more or less air is admitted to said cup or receptacle, according as damper or valve C is turned to more or less open or close the holes or perforations in the lid or cover of said cup or receptacle, and that communication between the outer end of cup or receptacle B and the external atmosphere may be entirely cut off by actuating valve C to close the holes or perforations in the lid or cover.

The bottom of cup or receptacle B is preferably imperforate, as shown, so that any drippings from a sponge or absorbing material impregnated with the substance to be inhaled and placed within said cup or receptacle, shall fall or drop upon the bottom of said cup or receptacle and not upon the face of the patient.

What we claim is—

1. An inhaler consisting of an outer shell or case that, at its inner end, is open and adapted to fit over the nose and mouth of the patient, a perforated cup or receptacle for receiving the substance or matter to be inhaled, said cup or receptacle extending into and being removably supported from the outer end of the surrounding-case or shell, and suitable means for regulating or controlling communication between said cup or receptacle and external atmosphere, substantially as set forth.

2. An inhaler consisting of an outer shell or case that, at its inner end, is open and adapted to fit over the nose and mouth of the patient, a perforated cup or receptacle for receiving the substance or matter to be inhaled, and ex-

tending into, and removably supported from the outer end of, the surrounding case or shell, said cup or receptacle having a perforated hinged lid or cover and a damper or valve for closing or regulating the size of the perforation or perforations in said lid or cover, substantially as set forth.

In testimony whereof we sign this specification, in the presence of two witnesses, this 27th day of January, 1894.

MAX A. BOESGER.
FREDERICK V. DOTTERWEICH.

Witnesses:
C. H. DORER,
WARD HOOVER.