

June 2, 1925.

1,540,274

W. J. MOORE

NASAL INHALER

Filed March 28, 1924

Fig. 1.

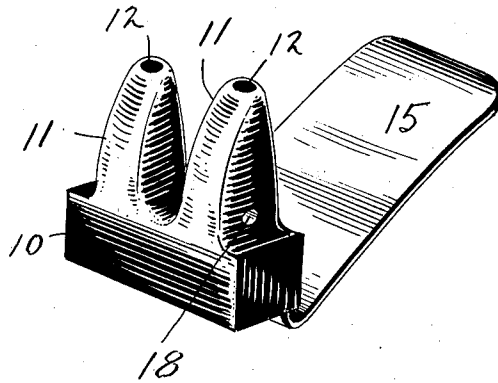


Fig. 2.

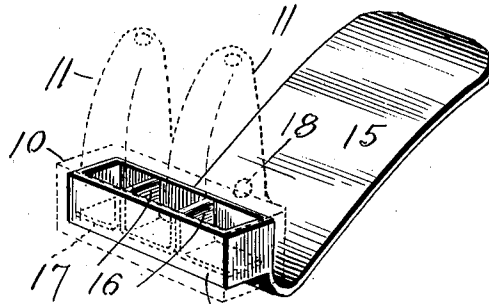
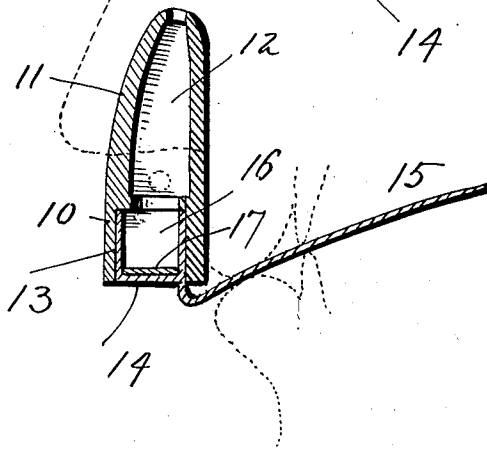


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM J. MOORE, OF WASHINGTON, DISTRICT OF COLUMBIA.

NASAL INHALER.

Application filed March 28, 1924. Serial No. 702,570.

To all whom it may concern:

Be it known that I, WILLIAM J. MOORE, residing at Washington, District of Columbia, a citizen of the United States, have invented certain new and useful Improvements in Nasal Inhalers, of which the following is a specification.

My invention relates to appliances for the introduction of medicines to the nasal passages by inhalation. Such appliances as are known to me are objectionable in that they must be held in position by the hand of the user which is objectionable because so held for any length of time it is tiresome and it incapacitates the hand for other uses while it is so employed, or be held by clamping or pressure devices which engage the nose which is objectionable because of the annoyance of the pressure with danger of breaking the skin with consequent exposure to infection and the likelihood that unless the pressure is extreme the appliance will fall out of position. The broad object of my invention is to provide means by which the inhaler may be held in position without the employment of the hands and without the use of any spring or clamping devices. Other objects of the invention will appear from the description in detail of the embodiment of my invention shown in the following description. My invention consists in whatever is described by or is included within the terms or scope of the appended claims.

In the drawings:

Fig. 1 is a perspective view of a nasal inhaler embodying my invention shown arranged for use;

Fig. 2 is a perspective view showing the parts thereof separated;

Fig. 3 is a vertical section of the parts arranged for use.

The inhaler embodying my invention shown in the drawing comprises a base, 10, from which rise two similar horn-like protuberances, 11, spaced apart and of a tapering form so that each may comfortably enter and more or less fill one of the nostrils, the spacing apart being to accommodate the septum of the nose, each of such horns being perforated from top to bottom by a hole or passage, 12, the bottom of both holes opening into a chamber or cavity, 13, in the base to receive a medicament holder or receptacle, 14, of shape and dimensions snugly to fit the chamber in the bottom of the base

so that the two may be separated when desired for the purpose of filling the receptacle or for cleansing the parts. The base, 10, and the horns are preferably formed integrally and of hard rubber, celluloid or other material lending itself to the preservation of a perfectly sanitary condition.

The receptacle, 14, is attached to one end of a plate, 15, that from the receptacle extends at a more or less acute angle to the horns so that when the plate is placed in the mouth between the lips and teeth the horns will comfortably enter the nostrils with the base, 10, lying against the upper lip and thus the plate, 15, constitutes a support or holder for the inhaler when in use by making use of the mouth of the user. The plate, 15, is of very thin material, preferably sheet metal so that its presence in the mouth will occasion no discomfort whatever and so that with the mouth in a perfectly, normally closed position the lips and teeth without any conscious effort upon the part of the user will securely hold the inhaler in operative position. In order to give a good bearing, the plate, 15, has a substantial width. The medicament receptacle may if desired be subdivided by partitions, 16, to make several chambers for the reception of different medicaments that it may be desired to use at the same time, these partitions being preferably removable to facilitate cleansing, to this end the partitions being formed integrally with a base, 17, which when the partitions are in place rests at the bottom of the receptacle. Inasmuch as the fit between the receptacle and the cavity in the bottom of the base is rather close and therefore not permitting free passage of air to enter the passages through the horns I preferably provide for each horn a lateral opening, 18, that leads from the exterior to the inside thereof at a point above the base, 10, so that in breathing air may readily flow into the horn to pass there-through into the nostril.

As will be evident from the form of my device shown in the drawing my invention may be embodied in a compact and neat looking device so that as to appearance it will be unobjectionable and indeed its appearance may be made attractive.

What I claim is:

1. A nasal inhaler having a nose engaging member provided in its bottom portion with a chamber in communication with the

external air and from which a passage leads to an outlet and having means for holding the inhaler in position for use comprising a plate of dimensions to extend between the lips and teeth and above the tongue, and a medicament holder attached to the plate and within said chamber.

2. A nasal inhaler having means for holding it in position for use comprising a thin mouth entering member of dimensions to extend between the lips and teeth, said member being of plate-form and comparatively wide and of a length to reach from the outside of the mouth to and between the teeth and to lie between the tongue and the roof

of the mouth, the inhaler having an air inlet independent of said mouth entering member.

3. A nasal inhaler having a nostril-entering member and a holder for supporting such member in the nostril comprising a thin, mouth-entering member having dimensions to extend between the lips and teeth and to lie between the tongue and the roof of the mouth, and joined to the inhaler at the bottom thereof and the inhaler having an air inlet apart from said holder.

In testimony whereof I hereunto affix my signature.

WILLIAM J. MOORE.