R. R. HARTMAN.

NOSTRIL CLEANING DEVICE.

APPLICATION FILED JUNE 21, 1916.

1,381,829. Patented June 14, 1921

Fig. 1.

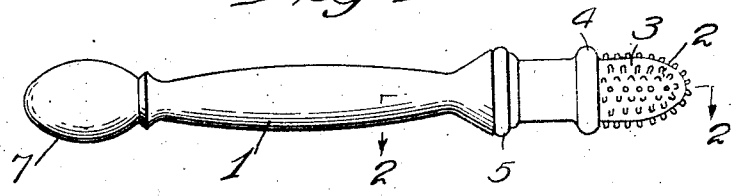
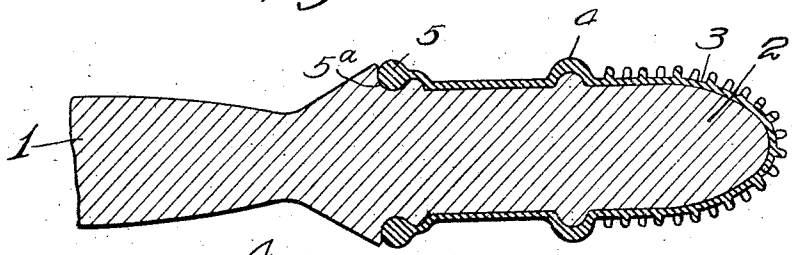


Fig. 2.



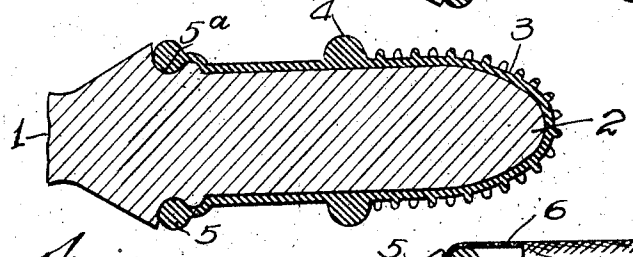
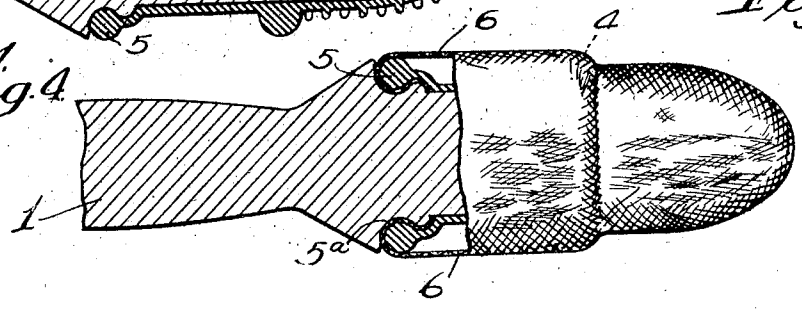


Fig. 3

Fig. 4



Witnesses

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UNITED STATES PATENT OFFICE.

ROBERT R. HARTMAN, OF CHICAGO, ILLINOIS.

NOSTRIL-CLEANING DEVICE.

1,381,829. Specification of Letters Patent. Patented June 14, 1921.

Application filed June 21, 1916. Serial No. 104,890.

To all whom it may concern:

Be it known that I, ROBERT R. HARTMAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Nostril-Cleaning Devices, of which the following is a specification.

This invention relates to nostril cleaning devices and has for its object to provide a new and improved device of this description. The air which is constantly passing through the nostrils is laden with dust, dirt, germs and other foreign material which is deposited in the nostrils. This foreign material often containing disease germs, collects in the nostrils and is not only a source of uncleanliness but a source of danger. Under the present conditions in which we live, it is therefore of vital importance to at least delay removing this foreign material and particularly before retiring at night.

One of the objects of my invention is to provide a nostril cleaner by means of which the nostrils can be easily and quickly cleaned daily or at any desired intervals without injury to the lining of the nostrils.

The invention is illustrated in the accompanying drawings, wherein—

Figure 1 is a view showing one form of device embodying the invention;

Fig. 2 is an enlarged sectional view taken on line 2—2 of Fig. 1;

Fig. 3 is an enlarged view showing the addition of a gauze or cloth to the holding or cleaner piece;

Fig. 4 is a view showing a modified construction.

Like numerals refer to like parts throughout the several figures.

In carrying out my invention, I prefer to provide a handle 1, made of any desired material. Connected with the handle 1 is a holding piece 2 adapted to be inserted in the nostril and adapted to hold the removable cleaner piece 3. This cleaner piece may be of any desired material and is preferably made of rubber with a series of projections thereon. This cleaner piece may be made of gauze or cloth, cork or other suitable material. The holding piece is made of the shape of the interior of the nostril and is of such size that when the cleaning piece is in position it will stretch the nostril in order to exert sufficient pressure on the lining thereof to clean it. Said holding piece is shaped so that it cannot pass too far up into the nostril, there being preferably means for limiting the upward movement of this holding piece, as for example the projection 4. The holding piece is inserted in the interior of the cleaner piece and the cleaner piece is connected therewith so that it will not rotate with relation to the holding piece. This attachment may be secured in any desired manner, as by the clamping effect of the cleaner piece or by means of a fastening piece 5, which may be integral with the cleaner piece and fit into a groove 5^a as shown. It is of course evident that any other means for preventing relative rotation between the cleaner piece and the holding piece may be used. I may also place over the holding piece or the cleaner piece a removable gauze 6, as shown in Fig. 3. This gauze, when the cleaner is used, may be removed and burned or otherwise destroyed, and is particularly adapted for conditions where this is desirable. In Fig. 4 I have shown a construction where the limiting device 4 is all a part of the cleaner piece, the holding piece 2 having a smooth, unbroken surface. This makes it easier to connect the cleaner piece with the holding piece. The cleaner piece may be washed or may be removed and a new cleaner piece used. The handle is preferably provided at its other end with the measuring device 7 adapted to be inserted in the nostril to determine the size of the nostril cleaner to use, this measuring device on each nostril cleaner being preferably the same size as the cleaner itself, so that if it fits the nostril opening that particular nostril cleaner is of the proper size for that particular individual.

In using the device, it is preferably wet with water and soap or any other cleaning material, and is then placed in the nostril and rotated. If the ordinary cleaner piece is used it may then be washed, and if desired, disinfected or thrown away. Under ordinary conditions it can be simply washed and can be used a number of times. If the gauze is used it is slipped on over the end of the device and used in the same manner as the cleaning device without gauze. The gauze may then be removed and destroyed.

I claim:

1. A nostril cleaner comprising a handle, a cleaner piece connected with said handle

and having a continuous outer wall, a stop at the inner end of the nostril engaging surface of said cleaner piece which limits the nostril engaging surface and the distance the cleaner can be inserted in the nostril, said cleaner piece shaped to conform to the cavity of the nostril and a series of projections on said cleaner piece between said stop and the end of the cleaner piece, said projections having blunt ends said cleaner acting to engage the lining of the nostril after being inserted its maximum distance therein and to remove material from the inner surface thereof when given a rotary movement.

2. A nostril cleaner comprising a handle, a holding piece connected with said handle, adapted to be inserted in the nostril, a removable cleaner piece connected with said holding piece shaped to conform to the cavity of the nostril, and a limiting device for limiting the distance the cleaner can be inserted in the nostril.

3. A nostril cleaner comprising a handle, a holding piece connected with said handle, adapted to be inserted in the nostril, a removable cleaner piece connected with said holding piece shaped to conform to the cavity of the nostril, and a measuring device also connected with said handle.

4. A nostril cleaner comprising a handle, a holding piece connected with said handle, a removable cleaner piece having a continuous outer wall and connected with said holding piece, and a removable gauze inclosing said cleaner piece.

5. A nostril cleaner comprising a handle, a cleaner piece of flexible material connected with said handle and shaped to conform to the cavity of the nostril, said cleaner piece having a continuous outer wall, a series of projections on the outer wall of said cleaner piece, said projections having blunt ends, a stop for limiting the distance the cleaner can be inserted in the nostril, said cleaner acting to engage the lining of the nostril when given a rotary movement after being inserted its maximum distance in the nostril.

In testimony whereof I affix my signature in the presence of two witnesses this 12th day of June, 1916.

ROBERT R. HARTMAN.

Witnesses:

ESTHER VAN FRANK,

ELLA THIEME.