

Dec. 30, 1947.

A. KORMAN

2,433,565

NOSE FILTER

Filed June 21, 1946

FIG. 1

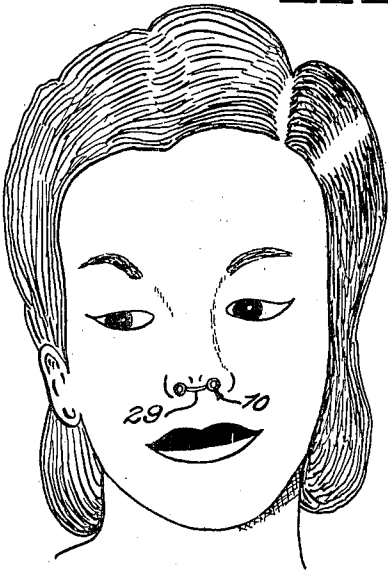


FIG. 2

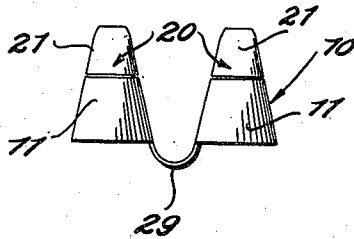


FIG. 3

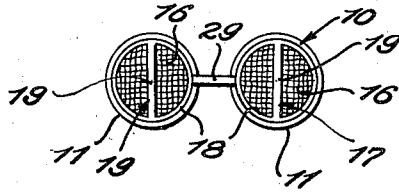


FIG. 4

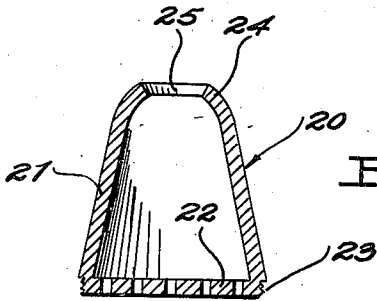
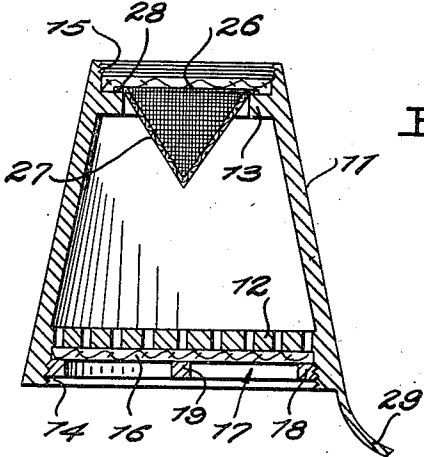


FIG. 5



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2,433,565

NOSE FILTER

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Application June 21, 1946, Serial No. 678,448

1 Claim. (Cl. 128—148)

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This invention relates to a nose filter and has for its primary object to exclude dust and dirt from entering the nostrils of the user.

Another object is to support an inhalant possessing medicinal properties in a proper position within the nostrils of the user so that with each inhalation, a treatment of the nasal tissues may be affected.

A further object is to facilitate the change of the inhalant at the desire of the user.

Among its features my invention embodies a pair of hollow frusto-conical nostril inserts, a yielding bridge piece connecting the lower ends of the inserts to removably hold the inserts in the nostrils of the user, and means for supporting interchangeable filters in the inserts.

Other features include means for sustaining a suitable inhalant within each insert so that with each breath the user receives a treatment.

In the drawings:

Figure 1 is a view showing my improved nose filter in use,

Figure 2 is a side view of a nose filter embodying features of this invention,

Figure 3 is a bottom plan view of Figure 2,

Figure 4 is an enlarged longitudinal sectional view through the cap closing the upper end of the nostril inserts, and

Figure 5 is a fragmentary enlarged sectional view through one of the nostril inserts of this improved nose filter.

Referring to the drawings in detail, my improved nose filter designated generally 10 comprises a pair of nostril inserts 11 each of which is formed as a hollow frusto-conical body having a perforated bottom wall 12 which is inset from its lower end, and an inwardly extending annular flange 13 which is inset a short distance from the upper end of the body. The body is formed adjacent its upper and lower ends with internal screw threads 14 and 15 respectively.

Seated against the underside of the perforated bottom 12 is a filter 16 which may take the form of a woven or knitted cloth or fabric, and this filter is held in place by a retainer designated generally 17 comprising a ring shaped externally screw threaded body 18 across which extends a transverse bar 19. As illustrated in Figure 5 the retainer 17 is screwed into the body against the underside of the filter 16 in order to hold the filter firmly in place.

A cap designated generally 20 is adapted to close the upper open end of the body of the insert 11 and comprises a hollow frusto-conical body 21 having a perforated bottom wall 22 carrying ex-

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ternal screw threads 23 at its periphery for engagement with the threads 15 previously referred to. The convergent ends of the side wall of the cap 18 are inturned as at 24 to form an inhaling opening 25 through which air entering the filter is taken into the nostril.

A filter 26 of gauze of light woven or knitted fabric is adapted to be seated upon the upper face of the inturned flange 13 and clamped in place thereon by contact with the under side of the bottom wall 22 of the cap 20 when the latter is in place in the device.

In order to support an inhalant or medication within the nose filter I provide a foraminous cone 27 having an outturned flange 28 at its larger end which is adapted to rest on the flange 13 beneath the filter 26 so as to hold the cone 27 in inverted position within the device. Any suitable medication may be suspended in the cone 27 by the simple expedient of introducing it into the upper open end of the cone before the cap 20 is attached in place and before the filter 26 is placed thereover. Obviously a small ball of cotton may be saturated with a liquid inhalant and dropped into the cone 27 so that air entering the nose filter and passing to the nostrils will become laden with the vapors of the inhalant.

By the simple expedient of joining the nostril inserts by a bridge piece 29 preferably of a yielding material it is obvious that the device may be made to grip the nostrils with sufficient pressure to retain it in place.

I claim:

A nose filter and medication holder comprising a pair of hollow frusto-conical nostril inserts, a yielding bridge piece connecting the lower ends of the inserts removably to hold the inserts in the nostrils of the user, the bottom wall of each insert being perforated and means to hold a filter pad against each perforated wall, an inverted foraminous cone supported adjacent the upper end of each insert to form an inhalant sustaining cup and means to retain each foraminous cone in place in its respective insert.

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REFERENCES CITED

The following references are of record in the file of this patent:

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