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RU2166341 Respiratory nasal filter
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Respiratory nasal filter
RU2166341

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- **Abstract:**
  (EP1237611)
  The device claimed refers to means for human respiration organ protection against dust-like particles-in particular, against allergen-carrying particles. It may be used as a nasal filter, as a filter in respirators, and so forth. The device comprises a hollow body having one or several inlet channels and one outlet orifice that are intended for the passage of inhaled air, with the inner surface of said body having such a shape that is close to the shape of a truncated cone, and said inlet channels are made in the major base of the cone with the direction of the axis of each of the channels being combined out of the tangential component and axial component, while the outlet orifice is made in the vertex (minor base) of the cone, and the inner body surface is covered with a sticky substance capable of retaining dust and allergen particles contained in the inhaled air. Cleaning of inhaled air takes place in filter's "vortex chamber" formed by the body of the above-indicated shape. When air enters this cone, it swirls on a spiral path owing to the configuration and direction of inlet channels. When dust particles get into spirally moving airflows, they shift to filter body walls because of the action of centrifugal forces, encounter said walls and get deposited on sticky substance that covers the entire filter body from the inside. The filter is designed so that no noticeable resistance to inhaling and exhaling is produced. (From US2003106556 A1)