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(54) Title: AEROSOL INHALATION DEVICE

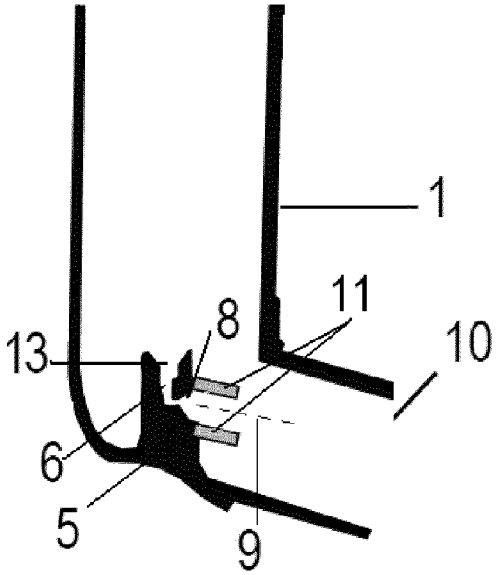


Figure 2

(57) Abstract: The invention deals with an actuator (1) for an aerosol inhalation device comprising a housing adapted to receive an aerosol canister (2) containing a pressurised medicament formulation, a mouthpiece portion through which the user inhales, a nozzle block (5), an orifice (8), and a tubular element (11) extending in the mouthpiece portion from the orifice aperture in a longitudinal axis aligned with a longitudinal axis of the mouthpiece portion. In particular said tubular element is positioned to enclose the orifice aperture within a recess. The tubular element is configured such that one of its terminal openings may be close fit to the nozzle block external surface, around the orifice aperture, so as to be in a continuous flow path with the orifice. Such configuration provides for a significant reduction in the non-respirable, coarse fraction of the emitted aerosol medicament via inertial impaction and retention in the actuator than in the oro-pharynx, with consequent less associated side effects and oral candidiasis in the patient. The presence of the tubular element has minimal, negligible impact on the fine particle dose and on the particle size distribution (PSD) of the delivered particles having aerodynamic diameter lower than 9 μm.

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