

Title (en)
FILTER CIGARETTE

Title (de)
FILTERZIGARETTE

Title (fr)
CIGARETTE FILTRE

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Application
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Abstract (en)
[origin: US6145511A] PCT No. PCT/EP96/04733 Sec. 371 Date May 4, 1998 Sec. 102(e) Date May 4, 1998 PCT Filed Oct. 31, 1996 PCT Pub. No. WO97/16986 PCT Pub. Date May 15, 1997A description is given of a filter cigarette, whose filter a) contains fibrous filter material, b) contains an additive with an antimutagenic action on the cigarette smoke in a quantity of less than 15 wt. %, based on the fiber weight of the filter and c) on smoking a similar unventilated filter cigarette, but not containing additive, has a nicotine retention RN (in %) (determined according to CORESTA recommended method No. 9) satisfying the following formula: $RN \geq 100 \cdot (1 - D)$ in which: $D = \exp(A \cdot B + C)$, with $A = 21$ mm-filter length (mm) for filter lengths ≤ 25 mm or $A = -4$ mm for filter lengths > 25 mm, $B = 9.3 \cdot 10^{-3} (1/\text{mm})$ and $C = -(d^4 \cdot \Delta p \cdot K + L)$ with d = filter diameter (mm), Δp = draw resistance of filter (mm hydraulic pressure), $K = 1.0228 \cdot 10^{-6} (1/(\text{mm}^4 \cdot \text{mm hydraulic pressure}))$ and $L = 0.2334$. Using said filter and measured according to the Ames test with strain TA 98, it is possible to filter mutagenically acting substances with a selectivity of at least 10% better than other smoke ingredients. A particularly suitable method for the manufacture of such a filter cigarette is described.

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