

Title (en)
FILTER CIGARETTE

Title (de)
FILTERZIGARETTE

Title (fr)
CIGARETTE FILTRE

Publication
EP 0859558 B1 20001011 (DE)

Application
EP 96937308 A 19961031

Priority
• DE 19541873 A 19951109
• EP 9604733 W 19961031

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.

IPC 1-7
A24D 3/14; **A24D 3/10**

IPC 8 full level
A24D 3/04 (2006.01); **A24D 3/06** (2006.01); **A24D 1/04** (2006.01); **A24D 3/10** (2006.01); **A24D 3/14** (2006.01); **A24D 3/16** (2006.01)

CPC (source: EP KR US)
A24D 3/048 (2013.01 - EP US); **A24D 3/10** (2013.01 - EP KR US); **A24D 3/14** (2013.01 - EP KR US); **A24D 3/16** (2013.01 - EP US)

Cited by
EP2269475A1; WO2006037640A3

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6145511 A 20001114; AT E196829 T1 20001015; AU 701048 B2 19990121; AU 7496496 A 19970529; BG 102414 A 19990430; BG 63814 B1 20030228; BR 9611382 A 19991228; CA 2234795 A1 19970515; CA 2234795 C 20020430; CN 1105518 C 20030416; CN 1202086 A 19981216; CZ 294476 B6 20050112; CZ 9801420 A3 20001011; DE 19541873 A1 19970515; DE 59605994 D1 20001116; DK 0859558 T3 20010129; EE 03660 B1 20020415; EE 9800152 A 19981215; EP 0859558 A1 19980826; EP 0859558 B1 20001011; ES 2154420 T3 20010401; GE P20002134 B 20000625; GR 3035218 T3 20010430; HK 1016434 A1 19991105; HU P9903488 A2 20000728; HU P9903488 A3 20010228; IL 124335 A0 19990126; IL 124335 A 20001031; IS 1800 B 20020116; IS 4737 A 19980508; JP 3604397 B2 20041222; JP H11501525 A 19990209; KR 100265506 B1 20000915; KR 19990067457 A 19990816; LT 4447 B 19990125; LT 98063 A 19981026; LV 12123 A 19980920; LV 12123 B 19981220; NO 306144 B1 19990927; NO 982079 D0 19980507; NO 982079 L 19980507; NZ 321598 A 19990830; PL 184287 B1 20020930; PL 326553 A1 19980928; PT 859558 E 20010330; RO 118922 B1 20040130; RU 2140758 C1 19991110; SI 9620124 A 19981231; SK 282028 B6 20011008; SK 59898 A3 19981007; TR 199800832 T2 19980721; UA 42853 C2 20011115; WO 9716986 A1 19970515

DOCDB simple family (application)
US 6819198 A 19980504; AT 96937308 T 19961031; AU 7496496 A 19961031; BG 10241498 A 19980429; BR 9611382 A 19961031; CA 2234795 A 19961031; CN 96198197 A 19961031; CZ 142098 A 19961031; DE 19541873 A 19951109; DE 59605994 T 19961031; DK 96937308 T 19961031; EE 9800152 A 19961031; EP 9604733 W 19961031; EP 96937308 A 19961031; ES 96937308 T 19961031; GE AP1996004275 A 19961031; GR 20010400034 T 20010111; HK 99101713 A 19990421; HU P9903488 A 19961031; IL 12433596 A 19961031; IS 4737 A 19980508; JP 51781297 A 19961031; KR 19980703471 A 19980509; LT 98063 A 19980507; LV 980076 A 19980423; NO 982079 A 19980507; NZ 32159896 A 19961031; PL 32655396 A 19961031; PT 96937308 T 19961031; RO 9800949 A 19961031; RU 98110971 A 19961031; SI 9620124 A 19961031; SK 59898 A 19961031; TR 9800832 T 19961031; UA 98052378 A 19961031