

Title (en)

Selective filtration of cigarette smoke using chitosan derivatives

Title (de)

Selektive Filtrierung von Zigarettenrauch mittels Chitosanderivate

Title (fr)

Filtrage sélectif de la fumée de cigarette au moyen de dérivés de chitosane

Publication

**EP 2510815 A3 20131030 (EN)**

Application

**EP 12176082 A 20050427**

Priority

- EP 05740341 A 20050427
- US 84216504 A 20040510

Abstract (en)

[origin: WO2005112671A1] A smoking article filter having a porous resin with a high surface area to mass ratio comprised of a chitosan derivative. Preferred embodiments include chitosan cross-linked with glutaraldehyde and chitosan cross-linked with glyoxal. The chitosan derivative provides for the selective filtration of cigarette smoke, particularly for the removal of aldehydes, hydrogen cyanide, heavy metals and carbonyls.

IPC 8 full level

**A24D 3/08** (2006.01)

CPC (source: EP US)

**A24D 3/08** (2013.01 - EP US)

Citation (search report)

- [Y] US 5993661 A 19991130 - RUCKENSTEIN ELI [US], et al
- [Y] EP 0311882 A1 19890419 - URAGAMI TADASHI
- [A] US 4018678 A 19770419 - PENISTON QUINTIN P, et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

**WO 2005112671 A1 20051201**; AR 049048 A1 20060621; AU 2005244774 A1 20051201; AU 2005244774 B2 20090129; BR PI0510809 A 20071106; CA 2565112 A1 20051201; CA 2565112 C 20111101; CN 101043826 A 20070926; EP 1746906 A1 20070131; EP 2510815 A2 20121017; EP 2510815 A3 20131030; JP 2007535929 A 20071213; JP 4547422 B2 20100922; MY 139894 A 20091130; RU 2006143635 A 20080620; RU 2336790 C2 20081027; US 2005247323 A1 20051110; US 2007295345 A1 20071227; ZA 200609182 B 20080625

DOCDB simple family (application)

**US 2005014476 W 20050427**; AR P050101891 A 20050510; AU 2005244774 A 20050427; BR PI0510809 A 20050427; CA 2565112 A 20050427; CN 200580020864 A 20050427; EP 05740341 A 20050427; EP 12176082 A 20050427; JP 2007511421 A 20050427; MY PI20052013 A 20050505; RU 2006143635 A 20050427; US 84216504 A 20040510; US 85414207 A 20070912; ZA 200609182 A 20061103