

Title (en)

FILTER, SMOKING ARTICLES CONTAINING THE SAME, FILTER STRANDS AND METHODS FOR PRODUCING FILTERS AND SMOKING ARTICLES OF THIS TYPE

Title (de)

FILTER, DIESE ENTHALTENDE RAUCHARTIKEL UND FILTERSTRÄNGE, SOWIE VERFAHREN ZUR HERSTELLUNG DERARTIGER FILTER UND RAUCHARTIKEL

Title (fr)

FILTRES, ARTICLES A FUMER ET BOUDINS CONTENANT CES FILTRES AINSI QUE PROCEDES PERMETTANT LA FABRICATION DESDITS FILTRES ET ARTICLES A FUMER

Publication

EP 1455610 A1 20040915 (DE)

Application

EP 02791805 A 20021210

Priority

- DE 10160672 A 20011211
- EP 0213991 W 20021210

Abstract (en)

[origin: WO03049560A1] The invention relates to a filter (10) for tobacco products, comprising a first end filter element (12), a second end filter element (14) and a central filter element (16), located between the first and the second end filter element and containing a granular filter material and a wrapping (20), one part of one of the end filter elements (12) being displaceable in relation to the wrapping (20). The invention also relates to smoking articles comprising filters of this type, to filter strands comprising two or more of the filters and to methods and devices for producing filters and tobacco products of this type.

IPC 1-7

A24D 3/02

IPC 8 full level

A24D 1/04 (2006.01); **A24D 3/04** (2006.01); **A24D 3/02** (2006.01); **A24D 3/16** (2006.01)

CPC (source: EP KR US)

A24D 3/02 (2013.01 - KR); **A24D 3/0225** (2013.01 - EP US); **A24D 3/0262** (2013.01 - EP US)

Designated contracting state (EPC)

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

Designated extension state (EPC)

LT LV RO

DOCDB simple family (publication)

WO 03049560 A1 20030619; AU 2002358119 A1 20030623; BR 0214874 A 20041228; CA 2469245 A1 20030619; CN 1294859 C 20070117; CN 1615089 A 20050511; DE 10160672 A1 20030618; EA 005538 B1 20050428; EA 200400798 A1 20041230; EP 1455610 A1 20040915; HK 1076584 A1 20060120; HU P0402416 A2 20050329; JP 2005511073 A 20050428; KR 20040061035 A 20040706; MY 130633 A 20070731; PL 199084 B1 20080829; PL 370496 A1 20050530; TW 200301085 A 20030701; TW I274557 B 20070301; UA 77475 C2 20061215; US 2005115578 A1 20050602; US 8047977 B2 20111101; ZA 200404571 B 20050203

DOCDB simple family (application)

EP 0213991 W 20021210; AU 2002358119 A 20021210; BR 0214874 A 20021210; CA 2469245 A 20021210; CN 02827441 A 20021210; DE 10160672 A 20011211; EA 200400798 A 20021210; EP 02791805 A 20021210; HK 05108617 A 20050929; HU P0402416 A 20021210; JP 2003550614 A 20021210; KR 20047009127 A 20021210; MY PI20024607 A 20021210; PL 37049602 A 20021210; TW 91135699 A 20021210; UA 20040705573 A 20021210; US 49862505 A 20050131; ZA 200404571 A 20040609