

Title (en)
APPARATUS AND ASSOCIATED METHOD FOR FORMING A FILTER COMPONENT OF A SMOKING ARTICLE AND SMOKING ARTICLES MADE THEREFROM

Title (de)
VORRICHTUNG UND DAMIT IN ZUSAMMENHANG STEHENDES VERFAHREN ZUR BILDUNG EINER FILTERKOMPONENTE EINES RAUCHARTIKELS, UND DARAUS HERGESTELLTER RAUCHARTIKEL

Title (fr)
APPAREIL ET PROCÉDÉ ASSOCIÉ POUR FORMER UN COMPOSANT DE FILTRE D UN ARTICLE À FUMER ET ARTICLES À FUMER QUI EN SONT CONSTITUÉS

Publication
EP 2323506 B2 20160727 (EN)

Application
EP 09751566 A 20090521

Priority

- US 2009044829 W 20090521
- US 39272509 A 20090225
- US 12489108 A 20080521
- US 12487408 A 20080521

Abstract (en)
[origin: WO2009143338A2] An apparatus and associated method for forming a filter rod member of a smoking article, such as a cigarette, is provided. The apparatus comprises a rod-forming unit configured to form a continuous supply of a filter material into a continuous cylindrical rod member. An insertion unit is configured to insert an adsorbent material carried by a carrier material into the rod member. The method comprises forming a continuous supply of a filter material into a continuous cylindrical rod member, and inserting an adsorbent material carried by a carrier material into the rod member such that the adsorbent material is disposed within the rod member. Also provided are cigarette filters including at least one filter segment having one or more composite fiber structures or degradable fibers imbedded therein, the composite fiber structure including a carrier fiber and an adsorbent fiber, the adsorbent fiber including an adsorbent material.

IPC 8 full level
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CPC (source: EP)
A24D 3/0212 (2013.01); **A24D 3/0216** (2013.01); **A24D 3/0225** (2013.01); **A24D 3/061** (2013.01); **A24D 3/068** (2013.01); **A24D 3/16** (2013.01); **A24D 3/163** (2013.01)

Citation (opposition)
Opponent :

- GB 1331096 A 19730919 - BRITISH AMERICAN TOBACCO CO
- WO 2006059134 A1 20060608 - FILTRONA INT LTD [GB], et al
- DE 1298032 B 19690619 - H 2 O FILTER CORP
- US 3428049 A 19690218 - LEAKE PRESTON H, et al
- GB 2223393 A 19900411 - CIGARETTE COMPONENTS LTD [GB]
- GB 1058343 A 19670208 - PHILIP MORRIS INC

Cited by
US9833017B2; US10524500B2; WO2014018645A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2009143338 A2 20091126; WO 2009143338 A3 20100121; CN 102046033 A 20110504; CN 102046033 B 20131204; CN 103222684 A 20130731; CN 103222684 B 20151118; EP 2323506 A2 20110525; EP 2323506 B1 20130410; EP 2323506 B2 20160727; EP 2537427 A1 20121226; EP 2537427 B1 20160817; ES 2420685 T3 20130826; ES 2420685 T5 20170210; ES 2603646 T3 20170228; JP 2011520469 A 20110721; JP 2014036659 A 20140227; JP 5438760 B2 20140312; JP 5905432 B2 20160420

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US 2009044829 W 20090521; CN 200980118780 A 20090521; CN 201310165893 A 20090521; EP 09751566 A 20090521; EP 12181299 A 20090521; ES 09751566 T 20090521; ES 12181299 T 20090521; JP 2011510702 A 20090521; JP 2013211054 A 20131008