

Title (en)
Smoking article with carbon monoxide oxidation catalyst.

Title (de)
Rauchartikel mit Katalysator zur Oxidation von Kohlenmonoxid.

Title (fr)
Article à fumer avec catalyseur d'oxydation du monoxyde de carbone.

Publication
EP 0535695 A2 19930407 (EN)

Application
EP 92116894 A 19921002

Priority
US 77039491 A 19911003

Abstract (en)
The present invention relates to a cigarette-like smoking article which is capable of producing substantial quantities of aerosol, both initially and over the useful life of the product, without significant thermal degradation of the aerosol former and without the presence of substantial pyrolysis or incomplete combustion products or sidestream aerosol. Embodiments of the present smoking article comprise a combustible fuel element, a physically separate CO oxidation catalyst attached adjacent to the fuel element, a physically separate aerosol-generating means including an aerosol forming material attached adjacent to the catalyst in conductive heat exchange relationship with the fuel element, and a means for delivering the generated aerosol to the user. The articles of the present invention provide the user with the taste, feel, and aroma associated with the smoking of conventional cigarettes without burning tobacco. The CO oxidation catalyst substantially decreases the level of CO inhaled by the user of such an article, by oxidizing the CO created by the burning fuel element to CO₂. <IMAGE>

IPC 1-7
A24B 15/16; **A24F 47/00**

IPC 8 full level
A24B 15/16 (2006.01); **A24D 1/22** (2020.01); **A24D 3/16** (2006.01); **A24F 47/00** (2006.01); **A61M 15/06** (2006.01); **B01D 53/94** (2006.01); **B01J 23/84** (2006.01); **B01J 23/889** (2006.01); **B01J 23/89** (2006.01); **B65D 83/14** (2006.01); **B65D 83/36** (2006.01)

CPC (source: EP US)
A24B 15/165 (2013.01 - EP US); **A24D 1/22** (2020.01 - EP US)

Cited by
JP2010535530A; CN104602554A; CN104905408A; RU2607608C2; FR2841438A1; CN101951796A; CN105661645A; EP0949873A4; KR20100054141A; EA015651B1; WO2007015735A1; WO2004002247A3; US10111470B2; USD842536S; US10244793B2; US10517530B2; USD887632S; US11571017B2; US10279934B2; US11865246B2; US10231484B2; USD851830S; US11039642B2; US11612702B2; US8061361B2; US8528567B2; US10076139B2; US10667560B2; US10375996B2; US11324254B2; US11582998B2; USD836541S; US10405582B2; US10779569B2; WO2009022232A3; WO2011045066A1; WO2022007459A1; US10952468B2; US11140916B2; US10045568B2; US10058129B2; US10117466B2; US10117465B2; US10426199B2; US10912331B2; US11278052B2; US9675109B2; US10420375B2; US10779577B2; US10834964B2; US10512282B2; USD913583S; USD929036S; US11478021B2; US11672276B2; US10104915B2; US10188140B2; US10638792B2; US11272731B2; US10463069B2; US10653180B2; US10849357B2; US11511056B2; US11510433B2; US11744277B2; US7647932B2; USD848057S; US11369756B2; US11369757B2; US11369755B2; US11660403B2; US11759580B2; US11766527B2; US10045567B2; US10058124B2; US10058130B2; US10070669B2; US10159282B2; US10201190B2; US10264823B2; US11752283B2

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

DOCDB simple family (publication)
EP 0535695 A2 19930407; **EP 0535695 A3 19940413**; CA 2079495 A1 19930404; JP H05329213 A 19931214; TW 216767 B 19931201

DOCDB simple family (application)
EP 92116894 A 19921002; CA 2079495 A 19920930; JP 26630992 A 19921005; TW 81108194 A 19921015