

Title (en)
Smoke-free cigarette

Title (de)
Rauchfreie Zigarette

Title (fr)
Cigarette sans fumée

Publication
EP 2191735 B1 20110413 (DE)

Application
EP 08020736 A 20081128

Priority
EP 08020736 A 20081128

Abstract (en)
[origin: EP2191735A1] The cigarette (10) has a thermal unit (40) for self-sustaining generation of heat and a nicotine reservoir provided with nicotine or a nicotine-containing compound. The thermal unit has a crystallization medium i.e. metastable solution, to continuously emit heat between 5 and 10 minutes during crystallization. An outer sleeve (22) is provided with a paper layer, a metal layer and a plastic layer, where the cigarette is designed as a disposable article. The thermal unit is heated to the temperature between 45 and 55 degree Celsius. The medium comprises fluid containing the salt hydrate such as sodium acetate-trihydrate and/or sodium sulfate and/or magnesium nitrate-hexahydrate. Independent claims are also included for the following: (1) a method for manufacturing a smoke-free cigarette (2) a method for providing a thermal unit used in a smoke-free cigarette.

IPC 8 full level
A24F 42/10 (2020.01); **A24F 42/60** (2020.01)

CPC (source: EP US)
A24F 42/10 (2020.01 - EP US); **A24F 42/60** (2020.01 - EP US)

Cited by
JP2014513538A; CN102905569A; US10036574B2; US11241042B2; CN114206145A; EP3958694A4; US11825870B2; US11672279B2; US11452313B2; US12016393B2; WO2012156695A1; US10542777B2; US11064725B2; US11659863B2; US11924930B2

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2191735 A1 20100602; EP 2191735 B1 20110413; AT E505094 T1 20110415; DE 502008003198 D1 20110526; WO 2010060537 A1 20100603

DOCDB simple family (application)
EP 08020736 A 20081128; AT 08020736 T 20081128; DE 502008003198 T 20081128; EP 2009007999 W 20091109