

Title (en)
Smoke-free cigarette

Title (de)
Rauchfreie Zigarette

Title (fr)
Cigarette sans fumée

Publication
EP 2227973 B1 20161228 (DE)

Application
EP 09003623 A 20090312

Priority
EP 09003623 A 20090312

Abstract (en)
[origin: EP2227973A1] 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
A24D 1/22 (2020.01); **F24V 30/00** (2018.01)

CPC (source: EP US)
A24D 1/22 (2020.01 - EP US)

Cited by
EP2954793A4; US11241042B2; US11825870B2; US10542777B2; US10036574B2; US11672279B2; US12041968B2; US11452313B2; US12016393B2; US11064725B2; US11659863B2; US11924930B2

Designated contracting state (EPC)
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EP 2227973 A1 20100915; EP 2227973 B1 20161228; WO 2010102832 A1 20100916

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EP 09003623 A 20090312; EP 2010001585 W 20100312