

Title (en)
PLEATED FILTER MATERIAL FOR SMOKING PRODUCTS

Title (de)
PLISSIERTES FILTERMATERIAL FÜR RAUCHARTIKEL

Title (fr)
MATÉRIAU FILTRANT PLISSÉ POUR ARTICLE À FUMER

Publication
EP 4064884 A1 20221005 (DE)

Application
EP 21748622 A 20210722

Priority
• DE 102020119388 A 20200722
• EP 2021070473 W 20210722

Abstract (en)
[origin: WO2022018180A1] The invention relates to a filter material for producing a segment for a smoking product, wherein the filter material comprises a hydro-entangled nonwoven material, and the nonwoven material comprises fibres, wherein the fibres are selected from the group consisting of cellulose fibres, fibres made of regenerated cellulose and mixtures thereof, and these fibres are contained together in the nonwoven material in a quantity of at least 50% and max. 100% of the mass of the hydro-entangled nonwoven material, and wherein the nonwoven material is in the form of a web, has a longitudinal direction in the running direction of the web, an orthogonal transverse direction lying in the web plane and a thickness direction that is orthogonal to the longitudinal direction and the transverse direction. The nonwoven material is formed such that, in the plane extending in the transverse direction and thickness direction, it has a wave structure with a wave height of at least 50 µm and max. 1000 µm, and a wavelength of at least 150 µm and max. 5000 µm.

IPC 8 full level
A24D 3/06 (2006.01); **A24D 3/10** (2006.01); **A24D 3/17** (2020.01)

CPC (source: EP US)
A24D 1/045 (2013.01 - US); **A24D 3/0204** (2013.01 - EP US); **A24D 3/04** (2013.01 - US); **A24D 3/062** (2013.01 - EP US); **A24D 3/10** (2013.01 - EP US); **A24D 3/17** (2020.01 - US); **D04H 1/26** (2013.01 - US); **D04H 1/4258** (2013.01 - US); **D04H 1/492** (2013.01 - US); **D10B 2505/04** (2013.01 - US)

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102020119388 A1 20220127; **DE 102020119388 B4 20230817**; BR 112023000478 A2 20230131; CN 116133538 A 20230516; EP 4064884 A1 20221005; JP 2023534469 A 20230809; KR 20230043104 A 20230330; US 2023284678 A1 20230914; WO 2022018180 A1 20220127

DOCDB simple family (application)
DE 102020119388 A 20200722; BR 112023000478 A 20210722; CN 202180060611 A 20210722; EP 2021070473 W 20210722; EP 21748622 A 20210722; JP 2023502820 A 20210722; KR 20237001831 A 20210722; US 202118005540 A 20210722