

Title (en)  
BIODEGRADABLE SEGMENT OF A SMOKING PRODUCT

Title (de)  
BIOLOGISCH ABBAUBARES SEGMENT EINES RAUCHARTIKELS

Title (fr)  
SEGMENT BIODÉGRADABLE D'UN ARTICLE À FUMER

Publication  
**EP 3970521 B1 20231206 (DE)**

Application  
**EP 21198049 A 20191008**

Priority  
• DE 102019100112 A 20190104  
• EP 19787177 A 20191008  
• EP 2019077231 W 20191008

Abstract (en)  
[origin: WO2020141027A1] The invention discloses a segment of a smoking product, comprising a fibre-based web material and an encasing material, which encases the fibre-based web material, wherein the fibre-based web material comprises at least 40% cellulose fibres and less than 10% non-natural polymers, both values being in relation to the mass of the web material, has a mass per unit area of at least 10 g/m<sup>2</sup> and at most 70 g/m<sup>2</sup> and a thickness of at least 25 µm and at most 400 µm, said web material having, in the segment, an area of at least 20 cm<sup>2</sup> and at most 90 cm<sup>2</sup> per cm<sup>3</sup> volume of the segment. The segment without the encasing material has a density of at least 50 kg/m<sup>3</sup> and at most 300 kg/m<sup>3</sup>, and a parameter Z, which is defined as  $Z = \rho_{\text{Web}} + 5 \cdot \rho_{\text{Seg}} + 12 \cdot A_{\text{Web}}$ , meets the inequality  $1300 \leq Z \leq 2800$ , with  $\rho_{\text{Web}}$  being the density of the web material in kg/ m<sup>3</sup>,  $\rho_{\text{Seg}}$  being the density of the segment without encasing material in kg/ m<sup>3</sup>, and  $A_{\text{Web}}$  being the area of the web material per volume of the segment in cm<sup>2</sup>/cm<sup>3</sup>.

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

CPC (source: EP KR US)  
**A24B 15/16** (2013.01 - US); **A24D 1/02** (2013.01 - KR US); **A24D 1/20** (2020.01 - US); **A24D 3/048** (2013.01 - KR); **A24D 3/063** (2013.01 - KR); **A24D 3/068** (2013.01 - EP KR US); **A24D 3/10** (2013.01 - EP); **A24D 3/14** (2013.01 - EP); **A24D 3/17** (2020.01 - US); **A24F 40/20** (2020.01 - KR); **A24F 40/40** (2020.01 - KR); **D21H 11/12** (2013.01 - KR); **D21H 13/08** (2013.01 - KR); **D21H 21/22** (2013.01 - KR)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ 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

DOCDB simple family (publication)  
**DE 102019100112 A1 20200709; DE 102019100112 B4 20200910**; BR 112020005387 A2 20210803; CN 111655052 A 20200911; CN 111655052 B 20220607; EP 3700366 A1 20200902; EP 3700366 B1 20220420; EP 3970521 A2 20220323; EP 3970521 A3 20220330; EP 3970521 B1 20231206; ES 2923499 T3 20220928; ES 2973035 T3 20240618; JP 2021511778 A 20210513; JP 7035173 B2 20220314; KR 102369738 B1 20220302; KR 20200086255 A 20200716; PH 12020500534 A1 20200720; PL 3700366 T3 20220808; US 2021195939 A1 20210701; WO 2020141027 A1 20200709

DOCDB simple family (application)  
**DE 102019100112 A 20190104**; BR 112020005387 A 20191008; CN 201980004529 A 20191008; EP 19787177 A 20191008; EP 2019077231 W 20191008; EP 21198049 A 20191008; ES 19787177 T 20191008; ES 21198049 T 20191008; JP 2020517290 A 20191008; KR 20207008610 A 20191008; PH 12020500534 A 20200313; PL 19787177 T 20191008; US 201916651208 A 20191008