

Title (en)
EXTRUDED POLYVINYL ALCOHOL FIBRES AND FIBROUS PRODUCTS

Title (de)
EXTRUDIERTER POLYVINYLALKOHOLFASERN UND FASERPRODUKTE

Title (fr)
FIBRES EXTRUDÉES EN ALCOOL POLYVINYLIQUE ET PRODUITS FIBREUX

Publication
EP 4321666 A1 20240214 (EN)

Application
EP 23191132 A 20230811

Priority
EP 22190330 A 20220813

Abstract (en)
A method of manufacture of a nonwoven product comprising polyvinyl alcohol fibres, the method comprising the steps of: providing a polyvinyl alcohol composition comprising homopolymeric polyvinyl alcohol having a degree of hydrolysis of 88% to 98% or greater; and a molecular weight in the range from 22,000 to 38,000; a plasticiser selected from the group consisting of: diglycerol, triglycerol, fructose, ribose, xylose, D-mannitol, triacetin, pentaerythritol, dipentaerythritol, methyl pentanediol, 1,2-propanediol, 1,4-butanediol, 2-hydroxy-1,3-propanediol, 3-methyl-1,3-butanediol, 3,3-dimethyl-1,2-butanediol, polyethylene glycol 300, polyethylene glycol 400, alkoxylated polyethylene glycol, caprolactam, tricyclic trimethylolpropane formal, rosin esters, erucamide, and mixtures thereof; and a stabilizer selected from the group consisting of: sodium stearate, potassium oleate, sodium benzoate, calcium stearate, stearic acid, dimethyl pentane diol, propionic acid and mixtures thereof; melting the composition at a temperature from 190 °C to 250 °C; extruding the melted composition to form an extrudate; forming the extrudate into molten fibres; drawing the molten fibres to form individual molten fibres or bundles of molten fibres; and allowing the molten fibres to solidify to form solid fibres or bundles of solid fibres.

IPC 8 full level
D04H 1/56 (2006.01); **D01D 5/08** (2006.01); **D01D 5/098** (2006.01); **D01D 5/16** (2006.01); **D01F 1/10** (2006.01); **D01F 6/14** (2006.01); **D04H 3/007** (2012.01); **D04H 3/033** (2012.01); **D04H 3/105** (2012.01); **D04H 3/11** (2012.01); **D04H 3/12** (2006.01); **D04H 3/14** (2012.01); **D04H 3/16** (2006.01)

CPC (source: EP)
D01D 5/08 (2013.01); **D01D 5/0985** (2013.01); **D01D 5/16** (2013.01); **D01F 1/10** (2013.01); **D01F 6/14** (2013.01); **D04H 1/56** (2013.01); **D04H 3/007** (2013.01); **D04H 3/033** (2013.01); **D04H 3/105** (2013.01); **D04H 3/11** (2013.01); **D04H 3/12** (2013.01); **D04H 3/14** (2013.01); **D04H 3/16** (2013.01)

Citation (applicant)
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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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4321665 A1 20240214; EP 4321666 A1 20240214; TW 202424296 A 20240616; WO 2024037987 A1 20240222

DOCDB simple family (application)
EP 22190330 A 20220813; EP 2023072322 W 20230811; EP 23191132 A 20230811; TW 112130377 A 20230811