

Title (en)
MELT-BLOWN NON WOVEN FABRIC, PROCESS FOR PRODUCING SAME AND THE USES THEREOF

Title (de)
MELT-BLOWN-VLIES, VERFAHREN ZU DESSEN HERSTELLUNG UND DESSEN VERWENDUNGEN

Title (fr)
NON-TISSE DE FUSION-SOUFFLAGE, SON PROCEDE DE PRODUCTION ET SES UTILISATIONS

Publication
EP 0885321 B1 20000510 (DE)

Application
EP 96944588 A 19961218

Priority
• DE 19609143 A 19960308
• EP 9605686 W 19961218

Abstract (en)
[origin: US6207601B1] The disclosure relates to a melt-blown non-woven fabric based on cellulose esters, with fibers of mean diameter less than about 10 microns. The fabric contains 0-10 wt. % extractable softener, has a reflection factor determined according to DIN 53 145 Part I (1992) of more than 60% and the cellulose ester has a degree of substitution DS of about 1.5-3.0. The softener is preferably water-extractable. A melt-blown non-woven fabric is produced with the cellulose ester as follows: a cellulose ester, cellulose acetate, with a DS of about 1.5-3.0, in particular 1.7-2.7, is mixed with softener in a weight ratio of about 2:1 to 1:4 and simultaneously heated and melted. The mixture of softener and cellulose ester has a melting index MFI (210/2.16) according to DIN 53 735 of about 400 to 5 g/10 min., in particular 300 to 50 g/10 min. The melt is worked in a melt-blown spinning device into a melt-blown non-woven fabric and the softener is then extracted with a softener solvent to leave a proportion of 0-10 wt. %. The melt-blown non-woven fabric is especially suitable as a filter material.

IPC 1-7
D04H 1/56; **D04H 1/42**; **A24D 3/10**; **A24D 3/02**

IPC 8 full level
A24D 3/02 (2006.01); **A24D 3/10** (2006.01); **B01D 39/16** (2006.01); **D01F 2/30** (2006.01); **D04H 1/425** (2012.01); **D04H 1/56** (2006.01); **D04H 3/013** (2012.01); **D04H 3/077** (2012.01); **D04H 3/16** (2006.01)

CPC (source: EP US)
A24D 3/068 (2013.01 - EP US); **A24D 3/10** (2013.01 - EP US); **D04H 1/425** (2013.01 - EP US); **D04H 3/013** (2013.01 - EP US); **D04H 3/077** (2013.01 - EP US); **D04H 3/16** (2013.01 - EP US); **Y10T 428/298** (2015.01 - EP US); **Y10T 442/60** (2015.04 - EP US); **Y10T 442/607** (2015.04 - EP US); **Y10T 442/668** (2015.04 - EP US); **Y10T 442/68** (2015.04 - EP US)

Cited by
DE202020103075U1; WO2011047765A1; WO2011047764A1; EP3915648A1; WO2021239452A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9733026 A1 19970912; AT E192789 T1 20000515; AU 1302297 A 19970922; DE 19609143 C1 19971113; DE 59605210 D1 20000615; EP 0885321 A1 19981223; EP 0885321 B1 20000510; JP 3251018 B2 20020128; JP H11506175 A 19990602; US 6207601 B1 20010327

DOCDB simple family (application)
EP 9605686 W 19961218; AT 96944588 T 19961218; AU 1302297 A 19961218; DE 19609143 A 19960308; DE 59605210 T 19961218; EP 96944588 A 19961218; JP 53137997 A 19961218; US 7704498 A 19980518