

Title (en)  
Thermally stable, melting-binder-strengthened nonwoven web and method for making the same

Title (de)  
Thermisch stabiles, schmelzbinderverfestigtes Spinnvlies und Verfahren zu seiner Herstellung

Title (fr)  
Nappe non tissée lien fondu fortifiée chaleur stable et procédé de sa fabrication

Publication  
**EP 0455990 B2 19980211 (DE)**

Application  
**EP 91105398 A 19910405**

Priority  
DE 4011479 A 19900409

Abstract (en)  
[origin: EP0455990A1] A thermally stable, melting binder-strengthened spunbonded non-woven web composed of supporting and binding filaments in which the melting point of the binding filaments is less than 30 DEG C below that of the supporting filaments is described. The binding and supporting filaments consist preferably of polyesters. The mass per unit area of the spunbonded non-woven web is in the range between 50 and 500 g/m<2>, the elementary count of the supporting filaments and binder filaments is in the range between 1 and 20 dtex, and the proportion of the binder filaments is between 5 and 25 percent by weight. The non-woven web is distinguished by a particularly high thermal load-bearing capacity, i.e. a particularly high resistance to high subsequent treatment temperatures. It can be used, for example, as a support material for roof webs and as tufting supports etc.

IPC 1-7  
**D04H 1/54**

IPC 8 full level  
**D01F 6/62** (2006.01); **D04H 1/54** (2006.01); **D04H 1/56** (2006.01); **D04H 3/011** (2012.01); **D04H 3/14** (2012.01); **D04H 3/153** (2012.01); **D04H 3/16** (2006.01); **D05C 17/02** (2006.01)

CPC (source: EP KR US)  
**D04H 3/011** (2013.01 - EP KR US); **D04H 3/14** (2013.01 - EP KR US); **D04H 3/153** (2013.01 - EP US); **D04H 3/16** (2013.01 - EP US); **D05C 17/023** (2013.01 - EP US); **D10B 2331/04** (2013.01 - EP US); **Y10S 428/92** (2013.01 - EP US); **Y10T 428/2929** (2015.01 - EP US); **Y10T 442/681** (2015.04 - EP US); **Y10T 442/697** (2015.04 - EP US); **Y10T 442/699** (2015.04 - EP US)

Cited by  
EP0568916A1; EP0590629A3; US5660915A

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL

DOCDB simple family (publication)  
**EP 0455990 A1 19911113; EP 0455990 B1 19951025; EP 0455990 B2 19980211**; AT E129531 T1 19951115; CA 2039971 A1 19911010; DE 4011479 A1 19911010; DE 59106749 D1 19951130; IE 70594 B1 19961211; IE 911164 A1 19911009; JP H04222266 A 19920812; KR 0149674 B1 19981015; KR 910018619 A 19911130; PT 97285 A 19930730; PT 97285 B 19990430; US 5219647 A 19930615

DOCDB simple family (application)  
**EP 91105398 A 19910405**; AT 91105398 T 19910405; CA 2039971 A 19910408; DE 4011479 A 19900409; DE 59106749 T 19910405; IE 116491 A 19910408; JP 7611191 A 19910409; KR 910005558 A 19910408; PT 9728591 A 19910408; US 68098891 A 19910405