

Title (en)  
Nonwoven fabric made from filaments and artificial leather containing it

Title (de)  
Vliesstoffbahn aus Filamenten und diese enthaltendes Kunstleder

Title (fr)  
Non-tissé fait à partir de filaments et cuir synthétique comprenant ce tissu

Publication  
**EP 1054096 A1 20001122 (EN)**

Application  
**EP 99108697 A 19990519**

Priority  
EP 99108697 A 19990519

Abstract (en)  
A nonwoven fabric made of filaments, which comprises filaments formed from a fiber-forming thermoplastic polymer and satisfies all of the following conditions (A) to (D). (A) The fiber bundles are present in a range of 5-70 per centimeter in any cross-section parallel to the direction of thickness of the nonwoven fabric. (B) The total area occupied by the fiber bundles is in a range of 5-70% of the cross-sectional area of any cross-section perpendicular to the direction of thickness of the nonwoven fabric. (C) The apparent density is 0.10-0.50 g/cm<sup>3</sup>. (D) The cut ends of the fibers on the nonwoven fabric surface are present in a range of 5-100 per mm<sup>2</sup> of surface area.

IPC 1-7  
**D06N 3/00**; **D04H 3/03**

IPC 8 full level  
**D04H 1/4382** (2012.01); **D04H 1/492** (2012.01); **D04H 3/005** (2012.01); **D04H 3/007** (2012.01); **D04H 3/011** (2012.01); **D04H 3/11** (2012.01); **D04H 3/16** (2006.01); **D04H 5/02** (2012.01); **D04H 11/08** (2006.01); **D06N 3/00** (2006.01)

CPC (source: EP US)  
**D04H 1/4382** (2013.01 - EP US); **D04H 1/4383** (2020.05 - EP US); **D04H 1/43838** (2020.05 - EP US); **D04H 1/492** (2013.01 - EP); **D04H 3/005** (2013.01 - EP); **D04H 3/007** (2013.01 - EP); **D04H 3/011** (2013.01 - EP); **D04H 3/11** (2013.01 - EP); **D04H 3/16** (2013.01 - EP); **D04H 5/02** (2013.01 - EP); **D04H 11/08** (2013.01 - EP); **D06N 3/0004** (2013.01 - EP)

Citation (search report)

- [A] WO 9911853 A1 19990311 - TEIJIN LTD [JP], et al & EP 0940492 A1 19990908 - TEIJIN LTD [JP]
- [A] US 4735849 A 19880405 - MURAKAMI KAKUJI [JP], et al
- [A] EP 0855461 A1 19980729 - TEIJIN LTD [JP]
- [A] GB 2085043 A 19820421 - NORWOOD IND INC
- [A] US 4107374 A 19780815 - KUSUNOSE TETSUHIRO, et al
- [A] DATABASE WPI Section Ch Week 199208, Derwent World Patents Index; Class A23, AN 1992-059256, XP002120313

Cited by  
CN102264968A; EP1167619A4; CN112030264A; EP1647620A4; DE102004036099A1; DE102004036099B4; US7132024B2; EP2292821A4; US7762873B2; US8021997B2; WO2007112443A3; US9752260B2; US7494697B2; US7998887B2; US8349232B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1054096 A1 20001122**; **EP 1054096 B1 20040915**; DE 69920177 D1 20041021; DE 69920177 T2 20050922

DOCDB simple family (application)  
**EP 99108697 A 19990519**; DE 69920177 T 19990519