

Title (en)
NONWOVEN FABRIC

Title (de)
VLIESSTOFF

Title (fr)
TISSU NON-TISSÉ

Publication
EP 2034066 A1 20090311 (EN)

Application
EP 07744921 A 20070608

Priority
• JP 2007061601 W 20070608
• JP 2006174505 A 20060623
• JP 2006270111 A 20060929

Abstract (en)
A nonwoven fabric provided with unevenness and openings, regulated so that without extremely increasing of fiber density at protrudent portions, depressed portions, etc., only part of the periphery of each open area is densified. One side edge portion (14,16) of each open area (3a,3b) is formed by shifting of fiber web (100) toward the low position of wire (302) with a gradient extending in the direction of width (WD). Nearly none of fiber web (100) is shifted to the side edge portion opposite to the one side edge portion (14,16) of open area (3a,3b), namely, other side edge portion (15,17).

IPC 8 full level
D04H 1/72 (2012.01); **A61F 13/15** (2006.01); **A61F 13/49** (2006.01); **A61F 13/511** (2006.01); **D04H 1/54** (2012.01); **D04H 1/70** (2012.01); **D04H 1/732** (2012.01); **D04H 1/76** (2012.01)

CPC (source: EP KR US)
D04H 1/495 (2013.01 - EP US); **D04H 1/70** (2013.01 - KR); **D04H 1/72** (2013.01 - EP US); **D04H 1/76** (2013.01 - KR); **Y10T 442/184** (2015.04 - EP US)

Cited by
EP2465988A4; US8450557B2; US9222206B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
US 2007298667 A1 20071227; EP 2034066 A1 20090311; EP 2034066 A4 20110518; JP 2008025085 A 20080207; JP 5154048 B2 20130227; KR 20090023344 A 20090304; TW 200804642 A 20080116; TW I343430 B 20110611; WO 2007148545 A1 20071227

DOCDB simple family (application)
US 74871207 A 20070515; EP 07744921 A 20070608; JP 2006270111 A 20060929; JP 2007061601 W 20070608; KR 20087026833 A 20081031; TW 96120382 A 20070606