

Title (en)  
NON-WOVEN FABRIC AND,LAMINATE AND STRING USING THE SAME

Title (de)  
VLIESSTOFF, LAMINAT UND ENTSPRECHENDER FADEN

Title (fr)  
TISSU NON TISSE ET LAMINE ET FICELLE UTILISANT CELUI-CI

Publication  
**EP 1403412 A4 20050406 (EN)**

Application  
**EP 02736141 A 20020617**

Priority  
• JP 0206028 W 20020617  
• JP 2001188807 A 20010621

Abstract (en)  
[origin: EP1403412A1] Non-woven fabric comprises interconnecting fluoro fibres and does not have a substrate. Independent claims are also included for: (1) a laminate containing the non-woven fabric and a support material; (2) a string obtained by twisting the fabric; (3) a method of reinforcing a non-woven fabric by heat and pressing; and (4) the non-woven fabric obtained.

IPC 1-7  
**D04H 1/42**; **D04H 1/46**; **D04H 13/00**

IPC 8 full level  
**D04H 1/42** (2006.01); **D04H 1/4318** (2012.01); **D04H 1/46** (2006.01); **D04H 1/49** (2012.01); **D04H 1/492** (2012.01); **D04H 1/54** (2006.01); **D04H 13/00** (2006.01)

CPC (source: EP KR US)  
**D04H 1/4318** (2013.01 - EP KR US); **D04H 1/4374** (2013.01 - EP US); **D04H 1/43835** (2020.05 - EP US); **D04H 1/49** (2013.01 - EP KR US); **D04H 1/54** (2013.01 - EP US); **Y10T 442/637** (2015.04 - EP US); **Y10T 442/689** (2015.04 - EP US); **Y10T 442/696** (2015.04 - EP US); **Y10T 442/697** (2015.04 - EP US)

Citation (search report)  
• [XA] EP 1050608 A1 20001108 - DAIKIN IND LTD [JP]  
• [XA] EP 0716175 A2 19960612 - AUSIMONT USA [US]  
• [A] US 5646076 A 19970708 - BORTZ DAVID N [US]  
• See references of WO 03000977A1

Cited by  
US7994080B2; WO2006099736A1

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

DOCDB simple family (publication)  
**EP 1403412 A1 20040331**; **EP 1403412 A4 20050406**; CN 1513069 A 20040714; JP 4029837 B2 20080109; JP WO2003000977 A1 20041014; KR 100561762 B1 20060316; KR 20040025687 A 20040324; TW I235773 B 20050711; US 2004198127 A1 20041007; WO 03000977 A1 20030103

DOCDB simple family (application)  
**EP 02736141 A 20020617**; CN 02811399 A 20020617; JP 0206028 W 20020617; JP 2003507348 A 20020617; KR 20037016260 A 20031212; TW 91113299 A 20020618; US 48112703 A 20031218