

Title (en)
MATERIAL FOR FLAME RETARDANT SHEET

Title (de)
MATERIAL FÜR FLAMMFESTES FLÄCHENGEBILDE

Title (fr)
MATERIAU DE FEUILLE IGNIFUGE

Publication
EP 1416079 A4 20050907 (EN)

Application
EP 01274292 A 20011227

Priority
• JP 0111543 W 20011227
• JP 2001161917 A 20010530

Abstract (en)
[origin: US2003171055A1] The flame retardant sheet material of the present invention simultaneously affords good flame retardancy and melting resistance in a sheet material in which a nonwoven is used, and also simultaneously provides good abrasion resistance and an excellent design, making it suitable for use in automotive trim surface materials. A flame retardant sheet material is obtained by first needle-punching and then stitch-bonding a web containing 70 to 95 wt % base fiber and 5 to 30 wt % flame retardant fiber selected from among flame retardant rayon fiber and modacrylic fiber. It is preferable for propoxyphosphazene or another such phosphoric ester-based flame retardant to be kneaded into the flame retardant fiber. It is also preferable to add a binder fiber to the web in order to improve abrasion resistance.

IPC 1-7
D04H 1/45; **D04H 1/42**; **D04H 1/46**; **D04H 1/48**

IPC 8 full level
B60R 13/02 (2006.01); **D04H 1/45** (2006.01); **D04H 1/46** (2012.01)

CPC (source: EP US)
D04H 1/4258 (2013.01 - EP US); **D04H 1/43** (2013.01 - EP US); **D04H 1/435** (2013.01 - EP US); **D04H 1/43828** (2020.05 - EP US); **D04H 1/43835** (2020.05 - EP US); **D04H 1/45** (2013.01 - EP US); **D04H 1/46** (2013.01 - EP US); **D04H 1/48** (2013.01 - EP US); **Y10T 442/601** (2015.04 - EP US); **Y10T 442/602** (2015.04 - EP US); **Y10T 442/682** (2015.04 - EP US); **Y10T 442/684** (2015.04 - EP US); **Y10T 442/696** (2015.04 - EP US)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 02099175A1

Cited by
EP2762623A4; US9850605B2

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)
US 2003171055 A1 20030911; EP 1416079 A1 20040506; EP 1416079 A4 20050907; JP 2002348766 A 20021204; WO 02099175 A1 20021212

DOCDB simple family (application)
US 38189903 A 20030331; EP 01274292 A 20011227; JP 0111543 W 20011227; JP 2001161917 A 20010530