

Title (en)  
Filament nonwoven fabrics and method of fabricating the same

Title (de)  
Vliesstoffe von Filamentfäden und Verfahren zur Herstellung

Title (fr)  
Etoffes non tissées de filaments et méthode de fabrication

Publication  
**EP 1612314 A2 20060104 (EN)**

Application  
**EP 05022050 A 19960916**

Priority

- EP 99108935 A 19960916
- EP 96114791 A 19960916
- JP 25167995 A 19950929
- JP 25607995 A 19951003
- JP 25608095 A 19951003
- JP 25608395 A 19951003

Abstract (en)  
The invention concerns a nonwoven fabric made up of filaments comprised of a polylactic acid-based polymer, wherein the polylactic acid-based polymer is a polymer selected from copolymers of D-lactic acid and L-lactic acid, copolymers of D-lactic acid and hydroxy-carboxylic acid, and copolymers of L-lactic acid and hydroxy-carboxylic acid, said polymer having a melting point of 100°C or more, or being a blend of such polymers having a melting point of 100°C or more. The constituent filaments of the nonwoven fabric are partially fusion bonded with heat and pressure by embossing or ultrasonic fusion, wherein said fusion bonding is present in spottedly configured individual fusion bonded areas. The invention also concerns a method of fabricating a nonwoven fabric made up of filaments comprised of a polylactic acid-based polymer.

IPC 8 full level  
**D04H 1/42** (2006.01); **D04H 1/48** (2006.01); **D04H 1/54** (2006.01); **D04H 3/00** (2006.01); **D04H 3/10** (2006.01); **D04H 3/14** (2006.01); **D04H 3/16** (2006.01)

CPC (source: EP KR US)  
**D01D 5/30** (2013.01 - EP); **D01F 6/625** (2013.01 - EP); **D01F 6/84** (2013.01 - EP); **D01F 8/14** (2013.01 - EP); **D04H 1/435** (2013.01 - EP); **D04H 1/43828** (2020.05 - EP US); **D04H 1/43912** (2020.05 - EP US); **D04H 1/43914** (2020.05 - EP US); **D04H 1/48** (2013.01 - EP); **D04H 1/5412** (2020.05 - EP US); **D04H 1/55** (2013.01 - EP); **D04H 3/00** (2013.01 - EP); **D04H 3/011** (2013.01 - KR); **D04H 3/018** (2013.01 - KR); **D04H 3/14** (2013.01 - EP); **D04H 3/147** (2013.01 - KR); **D04H 3/16** (2013.01 - EP)

Cited by  
EP2041346A4; CN113709006A; CN113403703A

Designated contracting state (EPC)  
FR GB NL SE

DOCDB simple family (publication)  
**EP 0765959 A1 19970402**; **EP 0765959 B1 20000119**; EP 0949371 A2 19991013; EP 0949371 A3 20040512; EP 0949371 B1 20081105; EP 1612314 A2 20060104; EP 1612314 A3 20061122; EP 1612314 B1 20090909; EP 1612314 B2 20140108; KR 100406244 B1 20040330; KR 970021415 A 19970528

DOCDB simple family (application)  
**EP 96114791 A 19960916**; EP 05022050 A 19960916; EP 99108935 A 19960916; KR 19960042661 A 19960925