Title (en)

COMPOSITE FIBER HAVING POROUS SHEATH PART.

Title (de)

VERBUNDFASER MIT PORÖSER HULLE.

Title (fr)

FIBRE COMPOSITE A ENVELOPPE POREUSE.

Publication

EP 0528048 A4 19940318 (EN)

Application

EP 92905966 A 19920305

Priority

JP 6237391 A 19910305

Abstract (en)

[origin: EP0528048A1] A composite fiber having a strength sufficient for practical use, easily going through carding process, and resistant to higher temperature when being processed into non-woven fabric or used as a non-woven fabric, which fiber is provided with a sheath part composed of porous polyolefin series synthetic resin and a non-porous core part. An apparent cross-sectional area of said sheath part is from 20 to 80 % of the entire cross-sectional area of the fiber. Said polyolefin series synthetic resin is preferably high density polyethylene or polyproylene. Said resin is made porous by mixing it with paraffin wax which is then removed after spinning process. The core part is selected from polypropylene resin, nylon of low melting point, and polyester of low melting point.

IPC 1-7

D01F 6/04; D01F 6/46; D01F 8/06; D04H 1/42

IPC 8 full level

D01F 8/06 (2006.01); **D04H 1/42** (2012.01)

CPC (source: EP US)

D01F 8/06 (2013.01 - EP); **D04H 1/4291** (2013.01 - EP); **D04H 1/4334** (2013.01 - EP); **D04H 1/435** (2013.01 - EP); **D04H 1/43828** (2020.05 - EP US); **D04H 1/43916** (2020.05 - EP US); **D04H 1/43918** (2020.05 - EP US)

Citation (search report)

- [Y] EP 0031719 A2 19810708 - ALBANY INT CORP [US]
- [Y] CHEMICAL ABSTRACTS, vol. 111, no. 20, 13 November 1989, Columbus, Ohio, US; abstract no. 176058z, KAZUAKI TODA ET AL.: "Porous odor-absorbing synthetic bicomponent fibers" page 106; column 2; & JP H0192414 A 19890411 - UBE NITTO KASEI CO
- [PY] DATABASE WPI Section Ch Week 9210, Derwent World Patents Index; Class A, AN 92-075263
- [Y] DATABASE WPI Section Ch Week 8601, Derwent World Patents Index; Class A, AN 86-004804
- See references of WO 9215734A1

Cited by

CN106948028A; EP1553223A4

Designated contracting state (EPC)

DE DK FR GB IT NL

DOCDB simple family (publication)

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DOCDB simple family (application)

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