

Title (en)
HIGH-DENSITY POLYETHYLENE NET-LIKE FIBER, NONWOVEN FABRIC MADE OF THE FIBER AND PRODUCTION OF THEM.

Title (de)
VERNETZTE POLYÄTHYLENFASER HOHER DICHT E UND NICHTGEWOBENE GEWEBE DARAUS SOWIE DEREN HERSTELLUNG.

Title (fr)
FIBRE DE POLYETHYLENE HAUTE DENSITE RETICULEE, TISSU NON TISSE FABRIQUE AVEC CETTE FIBRE, ET LEUR PRODUCTION.

Publication
EP 0285670 A4 19900108 (EN)

Application
EP 87906606 A 19871013

Priority

- JP 8700765 W 19871013
- JP 21142287 A 19870827
- JP 18118987 A 19870722
- JP 17296087 A 19870713
- JP 17207387 A 19870711
- JP 16968287 A 19870709
- JP 9523187 A 19870420
- JP 24145086 A 19861013

Abstract (en)
[origin: EP0285670A1] A high-density polyethylene three-dimensional net-like fiber (26) obtained by supplying a polymer to a melting zone (compression portion 13, metering portions 14 - 16) while melting the polymer by use of a heated screw extruder, supplying a solvent (CCl₃F) to the molten polymer (supply port 18), preparing a polymer solution by mixing and dissolving them under a high pressure and discharging the polymer solution from a nozzle (24) disposed in the melting zone into a low-pressure zone. The fiber (26) is caused to impinge against a skirt portion (33) having a fiber rocking surface (34) and a buffer surface (35) and is expanded and opened to obtain a nonwoven fabric. This nonwoven fabric is excellent in strength, coverability and whiteness.

IPC 1-7
D01F 6/04; D01D 5/11; D04H 3/00; D04H 3/03; D04H 3/16; D04H 13/02

IPC 8 full level
D01D 5/11 (2006.01); **D01F 6/04** (2006.01); **D04H 3/16** (2006.01)

CPC (source: EP)
D01D 5/11 (2013.01); **D01F 6/04** (2013.01); **D04H 3/16** (2013.01)

Citation (search report)
See references of WO 8802795A1

Cited by
US5286422A; US5369165A; EP0584060A4; EP1151787A3; US6179458B1; WO9819781A1

Designated contracting state (EPC)
BE DE FR GB IT LU NL SE

DOCDB simple family (publication)
EP 0285670 A1 19881012; **EP 0285670 A4 19900108**; **EP 0285670 B1 19960501**; DE 3751793 D1 19960605; DE 3751793 T2 19970109; WO 8802795 A1 19880421

DOCDB simple family (application)
EP 87906606 A 19871013; DE 3751793 T 19871013; JP 8700765 W 19871013