

Title (en)

METHOD FOR PRODUCING A POLYMER, USING CAPROLACTAM

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES POLYMERS UNTER VERWENDUNG VON CAPROLACTAM

Title (fr)

PROCEDE POUR LA PRODUCTION D'UN POLYMERE PAR UTILISATION DE CAPROLACTAME

Publication

**EP 1280846 A1 20030205 (DE)**

Application

**EP 01943299 A 20010430**

Priority

- DE 10021191 A 20000503
- EP 0104836 W 20010430

Abstract (en)

[origin: WO0183589A1] The invention relates to a method for producing a polymer. Said method is characterized as follows: a) a mixture (I) containing 6-aminocapronitrile and water is converted into a mixture (II) containing caprolactam, ammonia, water, high boilers and low boilers in the presence of a catalyst; then b) the ammonia is removed from mixture (II) to obtain a mixture (III) containing caprolactam, water, high boilers and low boilers; subsequently c) the water is completely or partially eliminated from mixture (III) to obtain a mixture (IV) containing caprolactam, high boilers and low boilers; and finally d) mixture (IV) is subjected to a polymerization reaction. The invention also relates to a polymer obtained according to said method, to its use in the production of fibres, flat material and moulded bodies that are obtained using a polymer of this type.

IPC 1-7

**C08G 69/14**; **C08G 69/16**

IPC 8 full level

**C08J 5/18** (2006.01); **C08G 69/04** (2006.01); **C08G 69/14** (2006.01); **C08G 69/16** (2006.01)

CPC (source: EP US)

**C08G 69/04** (2013.01 - EP US); **C08G 69/14** (2013.01 - EP US); **C08G 69/16** (2013.01 - EP US); **Y10T 428/29** (2015.01 - EP US); **Y10T 428/2969** (2015.01 - EP US); **Y10T 428/2971** (2015.01 - EP US)

Citation (search report)

See references of WO 0183589A1

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)

**WO 0183589 A1 20011108**; AR 029914 A1 20030723; AU 6591201 A 20011112; BR 0110452 A 20030311; CA 2407814 A1 20021031; CN 1172977 C 20041027; CN 1427861 A 20030702; DE 10021191 A1 20011108; EP 1280846 A1 20030205; IL 152051 A0 20030529; JP 2003531935 A 20031028; MX PA02009715 A 20030422; US 2003135019 A1 20030717; US 6878798 B2 20050412

DOCDB simple family (application)

**EP 0104836 W 20010430**; AR P010101992 A 20010427; AU 6591201 A 20010430; BR 0110452 A 20010430; CA 2407814 A 20010430; CN 01808939 A 20010430; DE 10021191 A 20000503; EP 01943299 A 20010430; IL 15205101 A 20010430; JP 2001580209 A 20010430; MX PA02009715 A 20010430; US 25787602 A 20021017