

Title (en)

METHOD FOR THE CONTINUOUS PRODUCTION OF PLOYAMIDE GRANULES

Title (de)

VERFAHREN ZUR KONTINUIERLICHEN HERSTELLUNG VON POLYAMID-GRANULAT

Title (fr)

PROCÉDÉ DE PRODUCTION EN CONTINU DE GRANULES DE POLYAMIDE

Publication

**EP 2046863 A2 20090415 (DE)**

Application

**EP 07724885 A 20070504**

Priority

- EP 2007003960 W 20070504
- CH 7232006 A 20060504

Abstract (en)

[origin: WO2007128521A2] The invention relates to a continuous method for production of polyamide granules, comprising a hydrolytic polymerisation of a mixture of at least one lactam and water to give a low-viscosity polyamide melt at a pressure of at least 5 bar and granulation of the low-viscosity polyamide melt by direct droplet formation with maintenance of a pressure which corresponds to at least the vapour pressure of the water retained in the polyamide melt. The low-viscosity granules thus obtained can be condensed in a single-stage subsequent step by treatment with super-heated steam to give a higher viscosity and unreacted monomers and cyclic oligomers extracted and then dried. The invention is characterised by gentle conditions with reduced residence time and temperatures.

IPC 8 full level

**C08G 69/16** (2006.01); **B01J 2/18** (2006.01); **B29B 9/10** (2006.01); **C08G 69/14** (2006.01)

CPC (source: EP KR)

**B29B 9/10** (2013.01 - EP KR); **B29B 9/16** (2013.01 - EP); **C08G 69/04** (2013.01 - EP); **C08G 69/16** (2013.01 - EP KR); **C08G 69/18** (2013.01 - EP); **C08G 69/46** (2013.01 - KR); **C08J 3/12** (2013.01 - KR); **B29B 2009/165** (2013.01 - EP); **B29K 2077/00** (2013.01 - EP)

Citation (search report)

See references of WO 2007128521A2

Cited by

CN110561642A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**WO 2007128521 A2 20071115**; **WO 2007128521 A3 20080313**; CN 101437870 A 20090520; EP 2046863 A2 20090415; JP 2009535468 A 20091001; KR 20090009231 A 20090122

DOCDB simple family (application)

**EP 2007003960 W 20070504**; CN 200780016024 A 20070504; EP 07724885 A 20070504; JP 2009508220 A 20070504; KR 20087027445 A 20081110