

Title (en)

METHOD FOR THE PRODUCTION OF POLYOXYMETHYLENE HOMOPOLYMERS OR COPOLYMERS BY HOMOPOLYMERIZING OR COPOLYMERIZING TRIOXANE, STARTING FROM METHANOL

Title (de)

VERFAHREN ZUR HERSTELLUNG VON POLYOXYMETHYLENHOMO- ODER -COPOLYMEREN DURCH HOMO- ODER COPOLYMERISATION VON TRIOXAN, AUSGEHEND VON METHANOL

Title (fr)

PROCÉDÉ DE PRODUCTION D'HOMOPOLYMÈRES ET DE COPOLYMÈRES DE POLYOXYMÉTHYLÈNE PAR HOMOPOLYMERISATION OU COPOLYMERISATION DE TRIOXANE, À PARTIR DE MÉTHANOL

Publication

**EP 2225296 A1 20100908 (DE)**

Application

**EP 08861536 A 20081211**

Priority

- EP 2008067286 W 20081211
- EP 07150113 A 20071219
- EP 08861536 A 20081211

Abstract (en)

[origin: WO2009077415A1] Disclosed is a method for producing polyoxymethylene homopolymers or copolymers (7) by homopolymerizing or copolymerizing trioxane, starting from methanol (1) that is oxidized in a first reactor of a first production system (A) such that an aqueous formaldehyde-containing stream (2) is obtained that is fed to a second production system (B) in which pure trioxane (6) is obtained. In said method, low-boiling fractions (5) are separated by distillation, and the pure trioxane (6) is fed to a third production system (C) in which the pure trioxane (6) is homopolymerized or copolymerized to obtain polyoxymethylene homopolymers or copolymers (7). The disclosed method is characterized in that the stream of low-boiling fractions (5) is recycled from the column (K 2) separating low-boiling fractions into the inlet of the first reactor in the first production system (A).

IPC 8 full level

**C08G 2/10** (2006.01); **C07D 323/06** (2006.01)

CPC (source: EP US)

**C07D 323/06** (2013.01 - EP US); **C08G 2/10** (2013.01 - EP US)

Citation (search report)

See references of WO 2009077415A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**WO 2009077415 A1 20090625**; AU 2008337624 A1 20090625; BR PI0820853 A2 20150616; CA 2707613 A1 20090625; CN 101903430 A 20101201; CN 101903430 B 20130424; EP 2225296 A1 20100908; JP 2011506720 A 20110303; KR 20100105610 A 20100929; MX 2010005954 A 20100611; MY 151105 A 20140415; US 2010280195 A1 20101104; US 8378144 B2 20130219

DOCDB simple family (application)

**EP 2008067286 W 20081211**; AU 2008337624 A 20081211; BR PI0820853 A 20081211; CA 2707613 A 20081211; CN 200880121569 A 20081211; EP 08861536 A 20081211; JP 2010538590 A 20081211; KR 20107013446 A 20081211; MX 2010005954 A 20081211; MY PI20102295 A 20081211; US 74774208 A 20081211