Title (en)
METHOD FOR PRODUCTION OF POLYOXYMETHYLENE HOMO- OR CO-POLYMERS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON POLYOXYMETHYLENHOMO- ODER -COPOLYMEREN

Title (fr)
PROCEDE POUR PRODUIRE DES HOMOPOLYMERES OU DES COPOLYMERES DE POLYOXYMETHYLENE

Publication
EP 1922346 A1 20080521 (DE)

Application
EP 06793021 A 20060825

Priority
• EP 2006065693 W 20060825
• DE 102005040500 A 20050826

Abstract (en)
[origin: WO2007023187A1] A method for production of polyoxymethylene homo- or co-polymers by homo- or co-polymerisation of trioxan or additional suitable co-monomers is disclosed, wherein trioxan is firstly produced in a monomer plant, which contains residual monomer and which is degassed in one or more stages to give one or more vapour streams (13, 14), optionally fed to a condenser (K) wherein the condensable components are condensed out to give a condensate (15), recycled into the polymerisation reactor (P) and a gaseous stream (16) containing formaldehyde and a partly degassed polyoxymethylene homo- or co-polymer (17), supplied to an extruder (E) or mixer and mixed with normal additives and processing agents to give a polymer melt (19) with removal of a formaldehyde-containing extruder or mixer exhaust gas (18) from the extruder (E) or mixer, characterised in that the formaldehyde-containing by product streams (14, 16, 18) are directly recycled to the monomer plant from the polymer plant without addition of adjuncts.

IPC 8 full level
C08G 2/10 (2006.01); **C07D 323/06** (2006.01); **C08G 2/28** (2006.01)

CPC (source: EP KR US)
C07D 323/06 (2013.01 - EP KR US); **C08G 2/10** (2013.01 - EP KR US); **C08G 2/28** (2013.01 - EP KR US); Y02P 20/582 (2015.11 - EP US)

Citation (search report)
See references of WO 2007023187A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007023187 A1 20070301; AU 2006283847 A1 20070301; BR PI0615387 A2 20160913; CA 2620161 A1 20070301; CN 101273073 A 20080924; EP 1922346 A1 20080521; JP 2009506155 A 20090212; KR 20080050429 A 20080605; NO 20080971 L 20080314; US 2008234459 A1 20080925

DOCDB simple family (application)
EP 2006065693 W 20060825; AU 2006283847 A 20060825; BR PI0615387 A 20060825; CA 2620161 A 20060825; CN 200680035584 A 20060825; EP 06793021 A 20060825; JP 2008527475 A 20060825; KR 20087007152 A 20080325; NO 20080971 A 20080226; US 6489306 A 20060825