

Title (en)  
CONTROLLED, IMINE BASE-INITIATED POLYMERIZATION

Title (de)  
KONTROLLIERTE, IMINBASEN-INITIIERTE POLYMERISATION

Title (fr)  
POLYMÉRISATION CONTRÔLÉE INITIÉE PAR DES BASES IMINE

Publication  
**EP 2697269 A2 20140219 (DE)**

Application  
**EP 12708123 A 20120306**

Priority  
• DE 102011007102 A 20110411  
• EP 2012053782 W 20120306

Abstract (en)  
[origin: WO2012139822A2] The present invention relates to a novel polymerization method for (meth)acrylates or styrenes, in which a specific base with imine structure is added as a latent initiator, and the polymerization can be initiated at high temperatures without addition of a coinitiator. This novel and controllably useable method can also be used to prepare high molecular weight poly(meth)acrylates, in some cases with narrow molecular weight dispersion. In addition, using this novel polymerization method, a wide variety of different polymer architectures, such as block, star or comb polymers, are available.

IPC 8 full level  
**C08F 4/00** (2006.01); **C08F 120/14** (2006.01)

CPC (source: EP US)  
**C08F 2/00** (2013.01 - US); **C08F 4/00** (2013.01 - EP US); **C08F 120/14** (2013.01 - EP US); **C08F 12/08** (2013.01 - EP US)

Citation (search report)  
See references of WO 2012139822A2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102011007102 A1 20121011**; BR 112013020607 A2 20161004; CN 103384685 A 20131106; EP 2697269 A2 20140219; JP 2014510818 A 20140501; US 2013317188 A1 20131128; WO 2012139822 A2 20121018; WO 2012139822 A3 20121220

DOCDB simple family (application)  
**DE 102011007102 A 20110411**; BR 112013020607 A 20120306; CN 201280009436 A 20120306; EP 12708123 A 20120306; EP 2012053782 W 20120306; JP 2014504225 A 20120306; US 201213983375 A 20120306