

Title (en)

HIGH MOLECULAR WEIGHT CATIONIC POLYMERS, PREPARATION METHOD AND USES THEREOF

Title (de)

KATIONISCHE POLYMERE MIT HOHEM MOLEKULARGEWICHT, VERFAHREN ZUR DEREN HERSTELLUNG UND DEREN ANWENDUNGEN

Title (fr)

POLYMERES CATIONIQUES DE HAUT POIDS MOLECULAIRE, PROCEDE POUR LEUR PREPARATION, ET LEURS APPLICATIONS

Publication

EP 1311553 A1 20030521 (FR)

Application

EP 01955439 A 20010719

Priority

- FR 0102347 W 20010719
- FR 0010092 A 20000727

Abstract (en)

[origin: WO0210225A1] The invention concerns a method for preparing high molecular weight cationic polymers based on dialkyl diallyl ammonium salts in bead form by reverse suspension polymerisation. Said method uses a monomer or a mixture of monomers based on dialkyl diallyl ammonium salts at a concentration ranging between 67 and 77 wt. % and preferably between 68 and 72 wt. % of active substance. Said method enables to polymerise said type of monomer without developing specific stabilising system, without seeded polymerisation, without even adding surfactants to the formulation, without distillation in certain important cases, and while avoiding any risk of solidification. The invention also concerns the resulting polymers and their industrial use, in particular paper making, water treatment, mining, cosmetics, textile, and generally in all industrial techniques of coagulation/flocculation.

IPC 1-7

C08F 2/32; **C08F 26/02**; **C08F 26/04**; **C02F 1/54**

IPC 8 full level

C08F 2/18 (2006.01); **C08F 2/32** (2006.01); **C08F 26/04** (2006.01)

CPC (source: EP US)

C08F 2/18 (2013.01 - EP US); **C08F 2/32** (2013.01 - EP US); **C08F 26/04** (2013.01 - EP US)

Citation (search report)

See references of WO 0210225A1

Cited by

US6489405B1; US7786190B2

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 0210225 A1 20020207; AU 7760501 A 20020213; EP 1311553 A1 20030521; FR 2812295 A1 20020201; FR 2812295 B1 20030131; US 2004030039 A1 20040212

DOCDB simple family (application)

FR 0102347 W 20010719; AU 7760501 A 20010719; EP 01955439 A 20010719; FR 0010092 A 20000727; US 31259903 A 20030805