

Title (en)
PROCESS FOR THE PREPARATION OF POLYMERS BASED ON VINYL HALIDES WITH ENHANCED PROPERTIES AND PRODUCTIVITY

Title (de)
VERFAHREN ZUR HERSTELLUNG VON POLYMEREN AUF BASIS VON VINYLHALOGENIDEN MIT VERBESSERTEN EIGENSCHAFTEN UND PRODUKTIVITÄT

Title (fr)
PROCÉDÉ DE PRÉPARATION DE POLYMÈRES À BASE D'HALOGÉNURES DE VINYLE PRÉSENTANT DES PROPRIÉTÉS ET UNE PRODUCTIVITÉ AMÉLIORÉES

Publication
EP 3237469 A1 20171101 (EN)

Application
EP 15817350 A 20151222

Priority

- EP 14382557 A 20141223
- EP 2015080963 W 20151222

Abstract (en)
[origin: WO2016102558A1] It is provided a process for the preparation of a polymer from a vinyl halide monomer (monomer A) and a monomer B that contains only one ethylenic double bond by free radical polymerization in aqueous medium, wherein the monomer B is present in the polymer in an amount of up to 25 wt% of the total monomers in the polymer. The process comprising a step a) mixing water, one amphiphilic substance, from 10 to 100 wt% of the monomer B, and from 10 to 100 wt% of the monomer A at an appropriate temperature, and adding an initiator in order to start polymerization and allowing the system to react until reaching a conversion from 10 to 99 mol% of monomers; and a step b) adding the remaining amount of monomer A and the remaining amount of the monomer B; wherein once finished the polymerization reaction, the conversion of the monomers is higher than 70%, provided that monomer B is not a methacrylate monomer.

IPC 8 full level
C08F 214/06 (2006.01); **C08F 2/18** (2006.01); **C08F 220/18** (2006.01)

CPC (source: EP)
C08F 214/06 (2013.01); **C08F 220/1808** (2020.02)

Citation (search report)
See references of WO 2016102558A1

Citation (examination)

- US 2009143547 A1 20090604 - LIN CHENG-JUNG [TW], et al
- KR 101047667 B1 20110708
- US 3882195 A 19750506 - DANIELS WILEY E, et al
- US 3835105 A 19740910 - FENDEL K, et al
- US 3459719 A 19690805 - RICHARDSON DEAN E, et al
- GB 821035 A 19590930 - UNION CARBIDE & CARBON CORP
- FR 1263236 A 19610609 - CFMC

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2016102558 A1 20160630; EP 3237469 A1 20171101

DOCDB simple family (application)
EP 2015080963 W 20151222; EP 15817350 A 20151222