

Title (en)

PREPARATION OF HYDROPHILIC POLYMERS OF HIGH MASS BY CONTROLLED RADICAL POLYMERIZATION

Title (de)

HERSTELLUNG VON HYDROPHILEN POLYMEREN MIT HOHER MASSE DURCH KONTROLLIERTE RADIKALISCHE POLYMERISATION

Title (fr)

PRÉPARATION DE POLYMÈRES HYDROPHILES DE HAUTE MASSE PAR POLYMÉRISATION RADICALE CONTROLLÉE

Publication

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Application

**EP 11773796 A 20110927**

Priority

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Abstract (en)

[origin: WO2012042167A1] The present invention relates to a process for preparing a polymer comprising at least one step (E) of gel polymerization, which gives access to polymer blocks of controlled high mass, in which the following are brought into contact: - identical or different, ethylenically unsaturated water-soluble monomers; - a source of free radicals suitable for the polymerization of said monomers, typically a redox system; and - an agent for controlling the radical polymerization, preferably comprising a thiocarbonylthio group -S(C=S)-, with a concentration of monomers in the reaction medium of step (E) that is high enough to induce gelation of the medium if the polymerization is performed in the absence of the control agent.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

See references of WO 2012042167A1

Citation (examination)

JING JI ET AL: "Efficient Synthesis of Poly(acrylic acid) in Aqueous Solution via a RAFT Process", JOURNAL OF MACROMOLECULAR SCIENCE, PART A, vol. 47, no. 5, 31 March 2010 (2010-03-31), pages 445 - 451, XP055181266, ISSN: 1060-1325, DOI: 10.1080/10601321003659705

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