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(54) Title: A CONTINUOUS PROCESS FOR PRODUCTION OF POLYMERIC MATERIALS

(57) Abstract: The present invention is related to a continuous process for producing a polymeric material, preferably a polymerizable/crosslinkable polymeric material, comprising the steps of introducing at least two solutions, each comprising one or more reactants selected from the group consisting of a monomer, an initiator, a coupling agent, a chain extender, a prepolymer, a macromer, into a microreactor to mix the two solutions to form a reacting solution; and feeding continuously the reacting solution into a flow-through polymerization reactor in a coil form immersed in an ultrasonic bath capable of providing a residence time sufficient for (co) polymerizing the reactants to form a (co) polymer with a desired polydispersity and to minimize or substantially eliminate unwanted high-molecular-weight fractions of the (co) polymer.



WO 2006/094706 A1