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(54) **Title:** METHOD FOR PRODUCTION OF POLYMER

(57) **Abstract:** The present invention relates to a method for switching between steady-state and non- steady- state operation of a process for the production of a polymer by polymerisation of a monomer in the presence of a comonomer and/or hydrogen which process comprises: a1. At non-steady-state controlling the process based on the ratio of comonomer to monomer in the reactor, and b1. At steady-state controlling the process based on the flow ratio of comonomer to monomer to the reactor, and /or a2. At non-steady-state controlling the process based on the ratio of hydrogen to monomer in the reactor, and b1. At steady-state controlling the process based on the flow ratio of hydrogen to monomer to the reactor.



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