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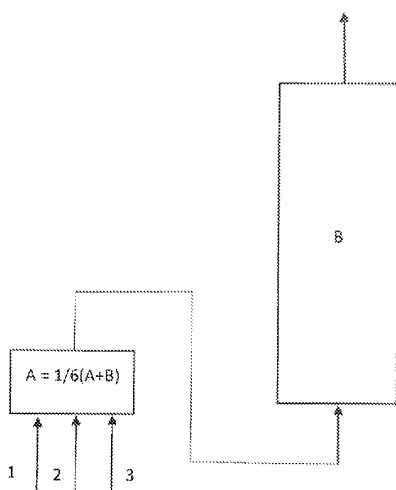


Figure 2

(57) Abstract: The present invention relates to a procedure of polymerisation in solution for the production of polymers, comprising the following steps: continuously feeding one or more monomers, one or more solvents in a quantity comprised between 70% and 90% by weight with respect to the reagent mixture, and a catalytic system, to a first, stirred reaction volume, wherein a single mixing cell is formed, in which the polymerisation begins, until a conversion is attained that varies from 20% to 70% with respect to the final conversion achieved, proceeding the polymerisation in at least one second stirred reaction volume connected in series to the first reaction volume, in which two or more mixing cells are formed, at the outlet of which the final conversion of the monomer is attained. Said procedure being characterised in that, in the first reaction volume, the average residence time of the reagent mixture varies within an interval ranging from 10% to 25% with respect to the average residence time of the entire reaction volume.

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