

Title (en)

METHOD FOR RECOVERING RESIDUAL MONOMERS IN THE PREPARATION OF VINYL ESTER-ETHYLENE COPOLYMERS

Title (de)

VERFAHREN ZUR RÜCKGEWINNUNG VON RESTMONOMEREN BEI DER HERSTELLUNG VON VINYLESTER-ETHYLEN-MISCHPOLYMERISATEN

Title (fr)

PROCÉDÉ DE RÉCUPÉRATION DE MONOMÈRES RÉSIDUELS DANS LA PRÉPARATION DE COPOLYMÈRES D'ESTER DE VINYLE-ÉTHYLÈNE

Publication

**EP 4225815 A1 20230816 (DE)**

Application

**EP 21772699 A 20210827**

Priority

EP 2021073747 W 20210827

Abstract (en)

[origin: WO2023025396A1] The invention relates to methods for preparing vinyl ester-ethylene copolymers by means of radically initiated polymerisation of vinyl esters, ethylene, and optionally further ethylenically unsaturated monomers in aqueous medium at a pressure of 5 to 120 bar abs., characterised in that a) a polymerisation mixture is expanded to a pressure of 1 to 15 bar abs., producing a gas phase which contains ethylene and an aqueous phase which contains a vinyl ester and vinyl ester-ethylene copolymers, b) the ethylene-containing gas phase from step a) is separated, then received in vinyl ester, and the mixture thus obtained is used in the radically initiated polymerisation of vinyl esters, ethylene, and optionally further ethylenically unsaturated monomers, and c) the aqueous phase from step a) is expanded to a pressure of 0.1 to 0.5 bar abs., a gas phase which contains a vinyl ester and water being formed, which is separated, then condensed, and then used in the radically initiated polymerisation of vinyl esters, ethylene, and optionally further ethylenically unsaturated monomers.

IPC 8 full level

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