

Title (en)

PROCESS FOR PREPARING A HALOGENATED POLYMER AND DEVICE FOR THE IMPLEMENTATION THEREOF

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES HALOGENIERTEN POLYMERS UND VORRICHTUNG ZUR UMSETZUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ DE PRÉPARATION DE POLYMÈRE HALOGÉNÉ ET DISPOSITIF DE MISE EN OEUVRE ASSOCIÉ

Publication

EP 2513170 A1 20121024 (EN)

Application

EP 10790950 A 20101213

Priority

- FR 0959024 A 20091216
- EP 2010069488 W 20101213

Abstract (en)

[origin: WO2011073129A1] Continuous process for preparing a halogenated polymer comprising a step of polymerization of at least one halogenated monomer in a medium comprising carbon dioxide in the liquid or supercritical state, in at least one pressurized reactor, said process comprising at least : - (1) an expansion of the suspension resulting from the reactor; - (2) a separation of the expanded suspension resulting from the reactor into a first stream, containing the solid phase comprising the halogenated polymer and into a liquid, gaseous or supercritical second stream, which is a mixture Of CO₂ and of monomer not converted to polymer; and the recovery of this first stream and of this second stream; the expansion (1) of the suspension resulting from the reactor and its separation (2) into first and second streams are carried out in several steps at successively decreasing pressures. - (3) an optional reheating, applied to the expanded suspension, before or after its separation into first and second streams, with optional recovery of the cold energy generated by the expansion; - (4) a recompression of the second stream, and the optional cooling thereof, in order to recycle it to the reactor feed, with a fresh monomer make-up and, possibly, a CO₂ make-up; - (5) a final step of degassing the halogenated polymer, optionally in combination with a continuous technique of forming the polymer into granules. Device for implementing the process.

IPC 8 full level

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CPC (source: EP)

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C-Set (source: EP)

1. **C08F 14/00** + **C08F 2/04**
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Citation (search report)

See references of WO 2011073129A1

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