

Title (en)

CONTINUOUS SLURRY POLYMERISATION PROCESS USING A LOOP REACTOR

Title (de)

KONTINUIERLICHES SUSPENSIONSPOLYMERISATIONSVERFAHREN IN EINEM UMLAUFREAKTOR

Title (fr)

PROCEDE DE POLYMERISATION CONTINUE EN SUSPENSION COMPRENANT L'UTILISATION D'UN REACTEUR A BOUCLE

Publication

EP 1474229 A1 20041110 (EN)

Application

EP 02704426 A 20020219

Priority

US 0204519 W 20020219

Abstract (en)

[origin: WO03070365A1] A process/apparatus is disclosed for continuously separating a liquid medium comprising diluent and unreacted monomers from a polymerization effluent comprising diluent, unreacted monomers and polymer solids, comprising a continuous discharge of the polymerization effluent from a slurry reactor through a discharge valve and transfer conduit into a first intermediate pressure flash tank with a conical bottom defined by substantially straight sides inclined at an angle to that of horizontal equal to or greater than the angle of slide of the slurry/polymer solids and an exit seal chamber of such diameter (d) and length (l) as to maintain a desired volume of concentrated polymer solids/slurry in the exit seal chamber such as to form a pressure seal while continuously discharging a plug flow of concentrated polymer solids/slurry bottom product of the first flash tank from the exit seal chamber through a seal chamber exit reducer with inclined sides defined by substantially straight sides inclined at angle to that of horizontal equal to or greater than the angle of slide of the polymer solids which remain after removal of about 50 to 100 % of the inert diluent therefrom to a second flash tank at a lower pressure.

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Citation (search report)

See references of WO 03070365A1

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