

Title (en)

SEPARATION OF HOMOGENEOUS CATALYSTS BY MEANS OF A REGULATED MEMBRANE SEPARATION UNIT

Title (de)

ABTRENNUNG VON HOMOGENKATALYSATOREN MITTELS EINER GEREGLTEN MEMBRANTRENNEINHEIT

Title (fr)

SÉPARATION DE CATALYSEUR HOMOGENE AU MOYEN D'UNE UNITÉ RÉGULÉE DE SÉPARATION À MEMBRANE

Publication

EP 2996805 A1 20160323 (DE)

Application

EP 14718406 A 20140417

Priority

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- EP 2014057851 W 20140417

Abstract (en)

[origin: WO2014183952A1] The invention relates to a method for separating a homogeneous catalyst out of a reaction mixture by means of at least one membrane separation unit, in which method: the reaction mixture coming from a reaction zone and containing the homogeneous catalyst is applied as a feed to the membrane separation unit; the homogeneous catalyst is depleted in the permeate of the membrane separation unit and enriched in the retentate of the membrane separation unit; and the retentate of the membrane separation unit is recirculated into the reaction zone. The invention addresses the problem of specifying a method for separating homogeneous catalyst out of reaction mixtures that simplifies the feeding of fresh catalyst into the reaction zone and avoids disruptions to the hydrodynamics within the reaction zone when the volumetric flow of the reaction mixture output from the reaction zone varies. This problem is solved in that both the retentate volumetric flow of the membrane separation unit and the retention of the membrane separation unit are kept constant by regulation.

IPC 8 full level

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Citation (examination)

- EP 1931472 B1 20090107 - EVONIK OXENO GMBH [DE]
- WO 2013034690 A1 20130314 - EVONIK OXENO GMBH [DE], et al
- WO 2010097428 A1 20100902 - EVONIK OXENO GMBH [DE], et al
- EP 0823282 A2 19980211 - HOECHST AG [DE]
- See also references of WO 2014183952A1

Designated contracting state (EPC)

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