Title (en)

METHOD FOR THE OPTIMISED MANAGEMENT OF A MEMBRANE FILTRATION UNIT AND EQUIPMENT FOR REALISING THE SAME

Title (de)

VERFAHREN ZUR OPTIMIERTEN VERWALTUNG EINER MEMBRANENFILTERUNGSEINHEIT UND AUSRÜSTUNG ZUR DURCHFÜHRUNG DIESES VERFAHRENS

Title (fr)

PROCEDE DE GESTION OPTIMISEE D'UNE UNITE DE FILTRATION SUR MEMBRANE, ET INSTALLATION POUR SA MISE EN OEUVRE

Publication

EP 2104551 A2 20090930 (FR)

Application

EP 07871865 A 20071214

Priority

- FR 2007002074 W 20071214
- FR 0611072 A 20061219

Abstract (en)

[origin: FR2909903A1] The process for optimized control of a filtration membrane unit, comprises injecting a dose of coagulant reagent of 30-80 times lower than an annulant dose of Zeta potential of effluent in an upstream of the membrane (6), measuring a temperature of the effluent, measuring a flow of filtration, and measuring a transmembrane pressure (9). The permeability of the membrane is corrected to a reference temperature of 20-25[deg] C. The injection of the coagulant reagent is controlled when a permeability of the membrane becomes lower than a threshold value of 10-40% of an initial permeability. The process for optimized control of a filtration membrane unit, comprises injecting a dose of coagulant reagent of 30-80 times lower than an annulant dose of Zeta potential of effluent in an upstream of the membrane (6), measuring a temperature of the effluent, measuring a flow of filtration, and measuring a transmembrane pressure (9). The permeability of the membrane is corrected to a reference temperature of 20-25[deg] C. The injection of the coagulant reagent is controlled when a permeability of the membrane becomes lower than a threshold value of 10-40% of an initial permeability, and actuated when the membrane permeability becomes equal or higher than a stable LpO value before reduction during determined maintenance of 12 hours. Time for evolution of permeability is 10-60 min. An independent claim is included for an installation for optimized control of a filtration membrane unit.

IPC 8 full level

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Citation (search report)

See references of WO 2008087300A2

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FR 2909903 A1 20080620; **FR 2909903 B1 20090227**; AU 2007344318 A1 20080724; AU 2007344318 B2 20111208; CA 2672769 A1 20080724; CN 101588858 A 20091125; EP 2104551 A2 20090930; JP 2010513009 A 20100430; RU 2009127745 A 20110127; RU 2415696 C2 20110410; US 2010032373 A1 20100211; WO 2008087300 A2 20080724; WO 2008087300 A3 20080918

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