

Title (en)

METHOD AND DEVICE FOR MICROFILTERING SOLID SUBSTANCE-CONTAINING LIQUIDS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR MIKROFILTRATION FESTSTOFFBELASTETER FLUIDE

Title (fr)

PROCEDE ET DISPOSITIF POUR REALISER UN MICROFILTRAGE DE LIQUIDES CONTENANT DES SUBSTANCES SOLIDES

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Application

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Abstract (en)

[origin: WO2007028261A1] The invention relates to a method and device for microfiltering solid substance-containing liquids, wherein a filtering performance decrease caused by a covering layer formation is diminished by the operation of a low excess-pressure filter on the input side and a filtering performance is increased by applying an underpressure on a filtrate side. The underpressure is produced by the use of a special filtering pump. Surprisingly, it is displayed that the covering layer formation is substantially delayed when a driving force, a pressure difference respectively, is primary produced by applying an excessive pressure on the filtrate side and non by the application thereof on the input side. In order to obtain a quasi-continuous operation with a permanent filtering performance by automatically cleaning the filter, the covering layer consisting of impurity particles is removed, when a threshold pressure is attained, by the combination of a short term backflushing and cleaning of the filter surface by a high-pressure nozzle.

IPC 8 full level

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