

Title (en)  
INFLUENT TREATMENT PROCESS

Title (de)  
ZUFLUSSBEHANDLUNGSVERFAHREN

Title (fr)  
PROCÉDÉ DE TRAITEMENT D'INFLUENT

Publication  
**EP 2680933 A1 20140108 (EN)**

Application  
**EP 12752471 A 20120301**

Priority  
• AU 2011900721 A 20110301  
• AU 2012000204 W 20120301

Abstract (en)  
[origin: WO2012116404A1] An improved automated method of controlling the filtering characteristics of a continuous up-flow granular media filter (12, 14). The filter (12, 14) is designed to treat an influent liquid (20, 24) which includes impurities to produce a treated liquid effluent (21, 26). The granular media filter (12, 14) includes a media filter bed (70) and an airlift pump (76) that moves granular media from a removal (point 38) in the media filter bed (70) to a deposit point (36) in the media filter bed (70). The method includes the steps of: monitoring the impurities level of the influent (20, 24); converting the influent (20, 24) impurities level into an impurities signal input to a computer (118), which uses computer software to interpret the impurities signal input; and using the impurities signal to control the air inflow rate to the airlift pump (76) to maintain the target ratio range between the size of captured solids inventory of the granular media filter (12, 14) and the size of the media filter bed (70) of the granular media filter (12, 14).

IPC 8 full level  
**C02F 9/00** (2006.01); **B01D 24/14** (2006.01); **B01D 24/30** (2006.01); **B01D 24/46** (2006.01); **C02F 1/00** (2006.01); **C02F 1/56** (2006.01); **C02F 3/00** (2006.01); **C02F 3/10** (2006.01); **C02F 3/30** (2006.01)

CPC (source: EP)  
**B01D 24/14** (2013.01); **B01D 24/30** (2013.01); **B01D 24/4689** (2013.01); **C02F 9/00** (2013.01); **C02F 1/004** (2013.01); **C02F 1/008** (2013.01); **C02F 1/56** (2013.01); **C02F 3/006** (2013.01); **C02F 3/10** (2013.01); **C02F 3/103** (2013.01); **C02F 3/104** (2013.01); **C02F 3/108** (2013.01); **C02F 3/307** (2013.01); **C02F 2209/005** (2013.01); **C02F 2209/03** (2013.01); **C02F 2209/105** (2013.01); **C02F 2209/11** (2013.01); **C02F 2209/14** (2013.01); **C02F 2209/22** (2013.01); **Y02W 10/10** (2015.05)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012116404 A1 20120907**; AU 2012222863 B2 20150514; CN 103619434 A 20140305; EP 2680933 A1 20140108; EP 2680933 A4 20150114

DOCDB simple family (application)  
**AU 2012000204 W 20120301**; AU 2012222863 A 20120301; CN 201280021526 A 20120301; EP 12752471 A 20120301