

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
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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).

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