

Title (en)
PULSED SLUDGE BED SETTLING METHOD AND DEVICE

Title (de)
VERFAHREN UND VORRICHTUNG FÜR GEPULSTES SCHLAMMBETTABSETZUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF DE DÉCANTATION A LIT DE BOUES PULSÉ

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Application
EP 10728323 A 20100603

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Abstract (en)
[origin: WO2010143102A1] The invention relates to a pulsed sludge bed settling method for treating all types of liquid, in particular water, and which uses at least one powder or grain reactant, according to which: the liquid and the reactant(s) for the treatment are contained in a tank (1) comprising, at the base thereof, a means (2) for uniformly feeding liquid to be treated over the entire surface thereof; the treated liquid is discharged into the top portion of the tank, at the top level (S) of the liquid; the liquid to be treated is supplied into the tank by pulsations, inducing alternating vertical movements of the sludge bed (M); and part of the sludge is spilled into a concentrator (12) when the top level of the sludge bed exceeds a spilling level (Ld). The amplitude of the alternating vertical movements of the sludge bed (M) is varied between at least two values: one of said values corresponds to a high sludge bed level (Nh2) that is lower than the spilling level (Ld), and the other of said values corresponds to a high sludge bed level that is higher than the spilling level (Ld), with the discharge of the sludge and the reactant.

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