

Title (en)

METHOD FOR REDUCING SPECIFIC RESISTANCE TO FILTRATION OF BIOLOGICAL SLUDGE DERIVED FROM A WASTE WATER PURIFYING STATION

Title (de)

VERFAHREN ZUR VERMINDERUNG DES SPEZIFISCHEN FILTRATIONSWIDERSTANDS EINES KLÄRSCHLAMMS

Title (fr)

PROCEDE POUR ABAISSER LA RESISTANCE SPECIFIQUE A LA FILTRATION DE BOUES BIOLOGIQUES PROVENANT D'UNE STATION D'EPURATION D'EAUX USEES

Publication

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Application

EP 01907844 A 20010220

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Abstract (en)

[origin: WO0162679A1] The invention concerns a method for reducing specific resistance to filtration of biological sludge to facilitate the separation of the solid phase and the aqueous phase by mechanical filtering, in particular in a filter press enabling to obtain a compacted cake with specific dry solid content. Said method is characterised in that, prior to mechanical filtering, it consists in adding to the biological sludge mineral particles containing hydrophobic species of magnesium silicate, and hydrophilic species of magnesium and aluminium silicate and/or magnesium and/or calcium carbonate in predetermined relative proportions ranging between 20/80 and 80/20, said particles having a predetermined mean diameter D50 ranging between 3 and 30 microns. The inventive method leads to significant reduction of specific resistance to biological sludge filtering.

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Citation (search report)

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