

Title (en)
METHOD FOR DISINFECTING AND CLEANING LIQUID MEDIA AND METHOD FOR SEPARATING SOLID AND LIQUID CONSTITUENTS OF A SOLID-LIQUID MIXTURE AND APPARATUS FOR IMPLEMENTING THE METHOD

Title (de)
VERFAHREN ZUR ENTKEIMUNG UND REINIGUNG VON FLÜSSIGEN MEDIEN SOWIE VERFAHREN ZUM SEPARIEREN FESTER UND FLÜSSIGER BESTANDTEILE EINER FEST-FLÜSSIG-MISCHUNG UND VORRICHTUNG ZUR UMSETZUNG DER VERFAHREN

Title (fr)
PROCÉDÉ DE STÉRILISATION ET DE PURIFICATION DE MILIEUX LIQUIDES ET PROCÉDÉ DE SÉPARATION DE CONSTITUANTS SOLIDES ET LIQUIDES D'UN MÉLANGE SOLIDE-LIQUIDE ET DISPOSITIF POUR LA MISE EN OEUVRE DES PROCÉDÉS

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Abstract (en)
[origin: US2020055759A1] The invention relates to a method for cleaning and/or disinfecting liquid and/or aqueous media, comprising the following method steps: cavitation treatment of the medium, in particular by means of jet cavitation, at a negative pressure <1 bar, preferably 0.3 to 0.7 bar; subsequent treatment of the medium in a hydrodynamic reactor having a rotating magnetic field and magnetic and/or magnetisable elements, in particular having ferromagnetic needles or a rotating cutting mechanism at a negative pressure <1 bar, preferably 0.3 to 0.7 bar; subsequent separation, in particular sedimentation of the treated medium by means of sludge separation at a negative pressure of <1 bar, preferably 0.3 to 0.7 bar. The invention further relates to an apparatus having the following features: a cavitator formed in particular as a jet cavitator, which is equipped with a negative pressure generator, a hydrodynamic reactor having a rotating magnetic field and magnetic and/or magnetisable elements, in particular having ferromagnetic needles and/or a rotating cutting mechanism, a unit for separation, in particular for sedimentation, preferably combined with a sludge separation apparatus.

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