

Title (en)

METHOD FOR MINIMISING THE NEW WATER USE IN THE WATER CIRCULATION SYSTEM OF A TREATMENT PLANT

Title (de)

VERFAHREN ZUM MINIMIEREN DES NEUWASSEREINSATZES IM WASSERKREISLAUF BEI EINER AUFBEREITUNGSANLAGE

Title (fr)

PROCEDE POUR MINIMISER L'UTILISATION D'EAU D'APPORT DANS UN CIRCUIT D'EAU FAISANT PARTIE D'UNE INSTALLATION DE TRAITEMENT

Publication

**EP 1220963 A1 20020710 (DE)**

Application

**EP 00969229 A 20000926**

Priority

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- DE 19949265 A 19991012

Abstract (en)

[origin: WO0127383A1] The invention relates to a method for minimising the new water use in the water circulation system of a treatment plant. The material to be treated is purified and/or disintegrated by means of water in a treatment step. The suspension containing the remaining components is subjected to mechanical purification and the mechanically purified suspension is separated into two process water streams. The first process water stream is supplied back into the treatment step and the second process water stream is subjected to a chemical-physical clarification. The chemically-physically clarified process water stream is separated into two clear water streams. The first clear water stream is led into one of the two process water streams and/or into the suspension and the second clear water stream is subjected to a biological clarification. The biologically clarified clear water stream being a fresh water stream is led in one or two clear water stream/s. The ratio between the process water streams and the clear water streams has been determined before according to the material that is supplied to the treatment step and the kind of the mechanical purification and the kind of the chemical-physical clarification.

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