Title (en)

METHOD FOR PROTECTING SURFACES AGAINST BIOLOGICAL MACRO-FOULING

Title (de)

VERFAHREN ZUM SCHÜTZEN VON OBERFLÄCHEN GEGEN BIOLOGISCHEN MAKROANWUCHS

Title (fr)

PROCEDE DE PROTECTION DE SURFACES CONTRE LES MACRO-SALISSURES BIOLOGIQUES

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Application

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Abstract (en)

[origin: WO02066318A1] The present invention relates to a method for protecting surfaces (S) which are in contact or come into contact with a water-containing medium (M) against biological macro-fouling, wherein 1) S is electrically conducting and 2) such a potential (P) fluctuating over time is applied to S that it inhibits the growth of organisms that live in M and/or propagate therein and which have the tendency to form deposits on S, characterised in that P does not assume values that are higher than the corrosion potential of S in M and the average value of P is lower than the said corrosion potential. The method according to the invention is particularly suitable for the protection of surfaces S where S comprises: a) internal walls of systems through which (M) is fed, such as cooling system tubes, heat exchangers or fluid transport tubes and associated parts which come into contact with (M); b) internal walls and parts of installations, equipment or storage facilities in which (M) is subjected to specific treatments, such as filter installations, purification installations or reaction vessels; c) external walls of vessels and constructions that are in contact with (M).

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