Title (en)

METHOD FOR DETECTING CHANGES IN WATER QUALITY

Title (de)

VERFAHREN ZUM NACHWEISEN VON VERÄNDERUNGEN DER WASSERQUALITÄT

Title (fr)

PROCEDE DE DETECTION DE CHANGEMENTS DE LA QUALITE DE L'EAU

Publication

EP 2238445 A1 20101013 (FR)

Application

EP 08866840 A 20081218

Priority

- EP 2008067935 W 20081218
- CH 20272007 A 20071227

Abstract (en)

[origin: WO2009083482A1] The invention relates to a method for the in-situ detection of a change in the quality of water of a site to be tested, that comprises using: a sensor including a work electrode made of boron-doped diamond and a reference electrode; an electronic device including a potentiostat for applying a predetermined potential to the work electrode and for measuring the resulting current on said electrode, and an electronic circuit for controlling the steps of said method. According to the invention, the detection method comprises the following steps: - obtaining and storing at least one current-potential reference curve (10) of the water of the site to be tested; continuously scanning in a cyclical manner the potential of the work electrode relative to the reference electrode, between the water oxidation and reduction potential, in order to cover the oxidation-reduction potentials of a plurality of chemical species, thus providing at least one current-potential curve (12) representative of the water quality; carrying out a qualitative comparison of the current-potential curve with the reference curve by subtraction of the reference curve from the current-potential curve thus obtained (14,15,16,17,18,18); analysing the optional differences resulting from the comparison relative to predetermined boundary values; and optionally initiating an alarm response.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2009083482A1

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