

Title (en)
IMPROVED ONLINE WATER ANALYSIS

Title (de)
VERBESSERTE ONLINE-WASSERANALYSE

Title (fr)
ANALYSE D'EAU EN LIGNE AMÉLIORÉE

Publication
EP 2135071 A1 20091223 (EN)

Application
EP 07845426 A 20071221

Priority
• AU 2007001988 W 20071221
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Abstract (en)
[origin: WO2008077192A1] A method of determining chemical oxygen demand (COD) of a water sample, which is useful in an on-line configuration comprising the steps of a) applying a constant potential bias to a photoelectrochemical cell, having a photoactive working electrode, optionally a reference electrode and a counter electrode, and containing a supporting electrolyte solution; b) illuminating the working electrode with a light source and recording the background photocurrent produced at the working electrode from the supporting electrolyte solution; c) adding a water sample, to be analysed, to the photoelectrochemical cell; d) illuminating the working electrode with a light source and recording the hydro dynamic photocurrent produced under continuous flow of the water to be analysed; e) determining the chemical oxygen demand of the water sample using a number of different formulae. The applied potential is preferably from -0.4 to + 0.8V more preferably about +0.3V. The method is applicable to water samples in the pH range of 2 to 10. An injection volume of 13µL is preferred. A preferred flow rate is 0.3mL/min.

IPC 8 full level
G01N 33/18 (2006.01); **G01N 27/00** (2006.01)

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