

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
• AU 2006907133 A 20061222

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 27/00 (2006.01); **G01N 33/18** (2006.01)

CPC (source: EP)
G01N 33/1806 (2013.01)

Citation (search report)
See references of WO 2008077192A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008077192 A1 20080703; AU 2007336707 A1 20080703; AU 2007336707 B2 20100603; BR PI0721041 A2 20140729; CA 2673188 A1 20080703; CN 101563603 A 20091021; EP 2135071 A1 20091223; TW 200835912 A 20080901

DOCDB simple family (application)
AU 2007001988 W 20071221; AU 2007336707 A 20071221; BR PI0721041 A 20071221; CA 2673188 A 20071221; CN 200780047325 A 20071221; EP 07845426 A 20071221; TW 96149574 A 20071221