

Title (en)
ELECTROCHEMICAL SENSOR

Title (de)
ELEKTROCHEMISCHER SENSOR

Title (fr)
DETECTEUR ELECTROCHIMIQUE

Publication
EP 0753141 A1 19970115 (EN)

Application
EP 95913227 A 19950328

Priority
• GB 9500694 W 19950328
• GB 9406109 A 19940328

Abstract (en)
[origin: WO9526500A1] The invention provides an electrochemical sensor of the type having a sensing electrode (12), a reference electrode (14) and a counter electrode (16) all in contact with an electrochemical medium, an amplifier (18) capable in operation of maintaining a first potential between the sensing electrode and the reference electrode, and means for detecting a current flowing at the sensing electrode or at the counter electrode in response to an electrochemical reaction at the sensing electrode due to the presence of a material of the type being monitored. According to the invention, there is an array of the sensing electrodes and a corresponding array of one of the reference electrodes and the counter electrodes, and means (30, 32) are provided for cycling an applied potential between the different electrodes in at least one of the arrays whereby each sensing electrode is in turn subjected to (a) a sensing potential at which detection can take place, and (b) a refreshing potential at which a discharge current flows between the associated counter electrode and sensing electrode to clean the surface of the sensing electrode.

IPC 1-7
G01N 27/403; **G01N 27/416**

IPC 8 full level
G01N 27/403 (2006.01); **G01N 27/416** (2006.01)

CPC (source: EP)
G01N 27/48 (2013.01)

Citation (search report)
See references of WO 9526500A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 9526500 A1 19951005; AU 2077195 A 19951017; CA 2186341 A1 19951005; EP 0753141 A1 19970115; GB 9406109 D0 19940518

DOCDB simple family (application)
GB 9500694 W 19950328; AU 2077195 A 19950328; CA 2186341 A 19950328; EP 95913227 A 19950328; GB 9406109 A 19940328