

Title (en)
ELECTROCHEMICAL MICRO SENSOR

Publication
EP 0363427 A4 19910116 (EN)

Application
EP 88906286 A 19880526

Priority
US 5370587 A 19870526

Abstract (en)
[origin: WO8809500A1] A micro-amperometric electrochemical sensor (10) for detecting the presence of a predetermined species in a fluid material is disclosed. The sensor includes a smooth substrate having a thin coating of solid electrolyte material (22) deposited thereon. The working (14) and counter (13) electrodes are deposited on the surface of the solid electrolyte material and adhere thereto. Electrical leads (15, 17) connect the working and counter electrodes to a potential source (19) and an apparatus for measuring the change in electrical signal (20) caused by the electrochemical oxidation or reduction of the species. Alternatively, the sensor may be fabricated in a sandwich structure and also may be cylindrical, spherical or other shapes.

IPC 1-7
G01N 27/30; G01N 27/52

IPC 8 full level
G01N 27/49 (2006.01)

CPC (source: EP)
G01N 27/4045 (2013.01)

Citation (search report)
• [YD] US 4076596 A 19780228 - CONNERY JAMES GERARD, et al
• [Y] US 4521290 A 19850604 - VENKATASETTY HANUMANTHIYA V [US]
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• [A] US 4387165 A 19830607 - YOUNGBLOOD JAMES L [US]
• See references of WO 8809500A1

Designated contracting state (EPC)
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