

Title (en)  
OPTO-ELECTRONIC SENSOR

Title (de)  
OPTOELEKTRONISCHER SENSOR

Title (fr)  
CAPTEUR OPTOELECTRONIQUE

Publication  
**EP 1287338 A1 20030305 (DE)**

Application  
**EP 01927600 A 20010324**

Priority  
• DE 0101148 W 20010324  
• DE 10018550 A 20000414

Abstract (en)  
[origin: WO0179819A1] The invention relates to an opto-electronic sensor which is configured on the basis of optodes and which allows almost infinite coupling angles of the light passing into the optode material by means of a mirrored (5) optode material (4). This has the advantage of achieving a longer optical path than that obtained by total reflection, thus attaining greater measuring precision. The inventive optode material (4) is a polymer, in which the mirrored surface (5) is produced by metallic particles infused into said polymer. The opto-transmitter (1) and the photo-sensitive sensors (6) are an LED and photodiodes respectively. Various opto-electronic sensors can be combined in a gas sensor array.

IPC 1-7  
**G01N 21/61**; **G01N 21/78**

IPC 8 full level  
**G01N 21/78** (2006.01)

CPC (source: EP US)  
**G01N 21/783** (2013.01 - EP US)

Citation (search report)  
See references of WO 0179819A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 0179819 A1 20011025**; CN 100401040 C 20080709; CN 1366605 A 20020828; DE 10018550 A1 20011025; DE 10018550 C2 20030327; EP 1287338 A1 20030305; US 2002148948 A1 20021017; US 6822215 B2 20041123

DOCDB simple family (application)  
**DE 0101148 W 20010324**; CN 01800917 A 20010324; DE 10018550 A 20000414; EP 01927600 A 20010324; US 1820302 A 20020507