

Title (en)
CAPACITIVE SENSOR FOR CHEMICAL ANALYSIS AND MEASUREMENT.

Title (de)
KAPAZITIVER SENSOR FÜR CHEMISCHE ANALYSE UND MESSUNG.

Title (fr)
CAPTEUR CAPACITIF D'ANALYSE ET DE MESURE CHIMIQUES.

Publication
EP 0245477 A4 19890809 (EN)

Application
EP 86907162 A 19861117

Priority
US 79976185 A 19851119

Abstract (en)
[origin: WO8703095A1] An apparatus for detecting the presence and/or measuring the concentration of an analyte in a fluid by using a biochemical binding system having a substrate (12), a first conductor (10) and a second conductor (14) disposed on substrate (12). The conductor (10) and (14) are spaced apart to form a channel therebetween. A thin insulating layer (16) is coated on the surface of conductors (10, 14) and substrate (12) to form an "open" capacitor. A biospecific binding agent (20) is immobilized on the surface of the insulating layer (16) between the conductors (10, 14). The dielectric constant of the biospecific binding agent (20) is altered by binding of the analyte being detected/measured with the biospecific binding agent (20).

IPC 1-7
G01N 33/566; G01N 33/545; G01N 27/22

IPC 8 full level
G01N 27/02 (2006.01); **G01N 27/22** (2006.01); **G01N 33/543** (2006.01)

CPC (source: EP)
G01N 27/3276 (2013.01); **G01N 33/5438** (2013.01); **G01N 27/227** (2013.01)

Citation (search report)

- [E] EP 0213825 A2 19870311 - MOLECULAR DEVICES CORP [US]
- [Y] EP 0127438 B1 19871216
- [Y] EP 0155193 A2 19850918 - SERONO DIAGNOSTICS LTD [GB]
- [Y] US 4238757 A 19801209 - SCHENCK JOHN F [US]
- See references of WO 8703095A1

Designated contracting state (EPC)
AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
WO 8703095 A1 19870521; CA 1259374 A 19890912; EP 0245477 A1 19871119; EP 0245477 A4 19890809; JP S63501446 A 19880602

DOCDB simple family (application)
US 8602433 W 19861117; CA 523122 A 19861117; EP 86907162 A 19861117; JP 50617286 A 19861117