

Title (en)

ENFET ELECTROCHEMICAL SENSOR FOR ENZYMATIC ASSAY.

Title (de)

ELEKTROCHEMISCHER FÄNGER VON ENFET-AUSFÜHRUNG FÜR ENZYMATISCHE BESTIMMUNG.

Title (fr)

CAPTEUR ELECTROCHIMIQUE DE DOSAGE ENZYMATIQUE DE TYPE ENFET.

Publication

EP 0651782 A1 19950510 (FR)

Application

EP 94915608 A 19940510

Priority

- FR 9400552 W 19940510
- FR 9305941 A 19930512

Abstract (en)

[origin: WO9426871A1] An electrochemical sensor for enzymatic assays consists of an enzymatic field effect transistor (ENFET) in which the selective gate, sensitive to at least one given ionic species, is covered at least partially by at least one internal enzymatic layer containing at least one enzyme capable of catalysing the decomposition of the substrate(s) to be assayed by forming and/or consuming said given ionic species, and by at least one additional external membrane superposed on the enzymatic layer. The additional membrane is based on at least one ionomer. A sensor of this type has the advantage of not being adversely affected by the buffer which could be present in the assay medium. Application in biological analyses, particularly for glucose or urea, using glucose oxydase and urease respectively.

IPC 1-7

C12M 1/40; **G01N 27/327**; **G01N 27/40**; **C12Q 1/00**

IPC 8 full level

C12Q 1/00 (2006.01); **G01N 27/414** (2006.01)

CPC (source: EP)

C12Q 1/002 (2013.01); **G01N 27/4145** (2013.01)

Citation (search report)

See references of WO 9426871A1

Designated contracting state (EPC)

CH DE GB LI NL

DOCDB simple family (publication)

WO 9426871 A1 19941124; EP 0651782 A1 19950510; FR 2705148 A1 19941118; FR 2705148 B1 19950804

DOCDB simple family (application)

FR 9400552 W 19940510; EP 94915608 A 19940510; FR 9305941 A 19930512