

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

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CPC (source: EP)

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Citation (search report)

See references of WO 9426871A1

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