Title (en)

BIOSENSOR AND METHOD OF MANUFACTURE

Title (de)

BIOSENSOR UND HERSTELLUNGSVERFAHREN

Title (fr)

BIOCAPTEUR ET SON PROCEDE DE FABRICATION

Publication

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Application

EP 04806222 A 20041221

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Abstract (en)

[origin: WO2005066356A1] A non-mediated biosensor for indicating amperometrically thecatalytic activity of an oxidoreductase enzyme in the presence of a fluid containing a substance acted upon by said enzyme comprises : (a) a first substrate; (b) a working electrode and a reference electrode on the first substrate; (c) conductive tracks connected to said electrodes for making electrical connections with a test meter apparatus; (d) a second substrate overlying part of the first substrate; and (e) a spacer layer having a channel therein and disposed between the first substrate and the second substrate, the spacer layer channel co-operating with adjacent surfaces to define a capillary flow path which does not contain a mesh and which extends from an edge of at least one of said substrates to said electrodes. The working electrode includes : (f) an electrically-conductive base layer comprising particles of finely divided platinum-group metal or platinum-group metal oxide bonded together by a resin; (g) a top layer on the base layer, said top layer comprising a buffer; and (h) a catalytically-active quantity of said oxidoreductase enzyme in at least one of said base layer and said top layer.

IPC 8 full level

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