

Title (en)

SYSTEM AND METHOD FOR ANALYTE SAMPLING AND ANALYSIS WITH HYDROGEL

Title (de)

SYSTEM UND VERFAHREN FÜR DIE ANALYTEN-ENTNAHME UND ANALYSE MIT HYDROGEL

Title (fr)

SYSTEME ET PROCEDE D'ECHANTILLONNAGE D'UN ANALYTE ET ANALYSE AVEC UN HYDROGEL

Publication

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Application

EP 05824881 A 20051027

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- US 22395705 A 20050913
- US 22396005 A 20050913

Abstract (en)

[origin: WO2006050032A2] The invention relates to a transdermal analyte monitoring system comprising a medium adapted to interface with a biological membrane and to receive an analyte from the biological membrane and an electrode assembly comprising a plurality of electrodes, wherein the medium is adapted to react continuously with the analyte, an electrical signal is detected by the electrode assembly, and the electrical signal correlates to an analyte value. The analyte value may be the flux of the analyte through the biological membrane or the concentration of the analyte in a body fluid of a subject. The medium may comprise a vinyl acetate based hydrogel, an agarose based hydrogel, or a polyethylene glycol diacrylate (PEG-DA) based hydrogel, for example. The surface region of the electrode may comprise pure platinum. The system may include an interference filter located between the biological membrane and the electrode assembly for reducing interference in the system. The system may comprise a processor programmed to implement an error correction method that corrects for sensor drift.

IPC 8 full level

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Citation (search report)

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- [X] EP 1266608 A2 20021218 - LIFESCAN INC [US]
- [Y] US 2003100846 A1 20030529 - CUSTER LINDA [US], et al
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- See references of WO 2006050032A2

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