

Title (en)

BIOCOMPATIBLE SCAFFOLD FOR SENSING PROTEINS

Title (de)

BIOKOMPATIBLES GERÜST FÜR SENSING PROTEINE

Title (fr)

ÉCHAFAUDAGE BIOCOMPATIBLE POUR LA DÉTECTION DE PROTÉINES

Publication

EP 2101687 A2 20090923 (EN)

Application

EP 07814882 A 20070917

Priority

- US 2007078634 W 20070917
- US 65318907 A 20070112
- US 65319207 A 20070112

Abstract (en)

[origin: WO2008088588A2] This invention related to a biocompatible scaffold that can detect redox-active chemicals and biomolecules electrochemically. In one embodiment, the biocompatible scaffold includes a substrate, and a conductive layer of TiO₂-containing nanowires or nano fibers formed on the substrate, wherein the conductive layer of TiO₂-containing nanowires or nanofibers is formed with a pore structure, and wherein when the biocompatible scaffold is in contact with a biological analyte, one or more proteins of the biological analyte are immobilized on a surface of the conductive layer Of TiO₂- containing nanowires or nanofibers so as to generate a measurable faradic current signal.

IPC 8 full level

A61F 2/28 (2006.01); **C01G 99/00** (2010.01); **C12Q 1/00** (2006.01)

CPC (source: EP)

G01N 33/5438 (2013.01); **G01N 33/553** (2013.01)

Citation (search report)

See references of WO 2008088588A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2008088588 A2 20080724; **WO 2008088588 A3 20081204**; EP 2101687 A2 20090923

DOCDB simple family (application)

US 2007078634 W 20070917; EP 07814882 A 20070917