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(54) Title: TISSUE IMPLANTABLE MICROBIOSensor

(57) Abstract: A biosensor system comprises a capillary substrate, conductive electrode, and a plurality of nanoparticles having an enzyme deposited thereon formed in a cavity at one end of the capillary substrate. The substrate may have an optional reinforcing layer (which may be conductive or non-conductive) and optional insulating layer thereon. A cannula having an optional conductive layer, insulating layer, and reference electrode may also form part of the system.



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A. CLASSIFICATION OF SUBJECT MATTER**G01N 33/68(2006.01)i, G01N 27/26(2006.01)i, C12Q 1/26(2006.01)i, B82Y 15/00(2011.01)n**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: biosensor, electrode, enzyme, nanoparticle

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 04919141A (ZIER; HORST D. et al.) 24 April 1990 See the whole document.	1-66
A	US 6233471 B1 (BERNER; BRET et al.) 15 May 2001 See the whole document.	1-66
A	US 2003-0032892 A1 (JULIAN VAN ERLACH et al.) 13 February 2003 See the whole document.	1-66
A	Md. Aminur Rahman, et al. Analytical Chemistry, Vol.77, No.15, August 1, 2005, pp.4854-4860 See the whole document.	1-66



Further documents are listed in the continuation of Box C.



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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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