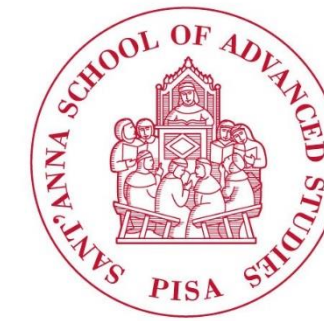


A system for monitoring and treating metabolic disorders

GALVANI
BIOELECTRONICS



U LISBOA | UNIVERSIDADE
DE LISBOA

INVENTORS: Silvestro Micera,
Alessandro Panarese,
Alberto Mazzoni,
Jacopo Carpaneto,
Marina Cracchiolo,
Nishan Ramnarain,
Silvia Margarida Vilares Santos Conde

CO-OWNERS: Universidade De Lisboa, Galvani Bioelectronics

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Invention



The present invention refers to the field of medical devices, in particular to a system for monitoring and treating metabolic disorders, especially type 2 diabetes, comprising: i) an implantable device comprising a monitoring module for monitoring Carotid Sinus Nerve activity of the subject; and ii) a computational unit comprising at least a processor configured for: - acquiring the recorded Carotid Sinus Nerve activity neural data from the monitoring module; - decoding from the acquired neural data a metabolic feature measured for the subject; - comparing said decoded metabolic feature for said subject with a metabolic marker, and - setting up a pattern of electrical stimulations of the Carotid Sinus Nerve, if an abnormal feature results from the comparison, said pattern being a blocking stimulation of the Carotid Sinus Nerve, appropriate for restoring in the subject normal values of the metabolic feature.

Drawings & pictures

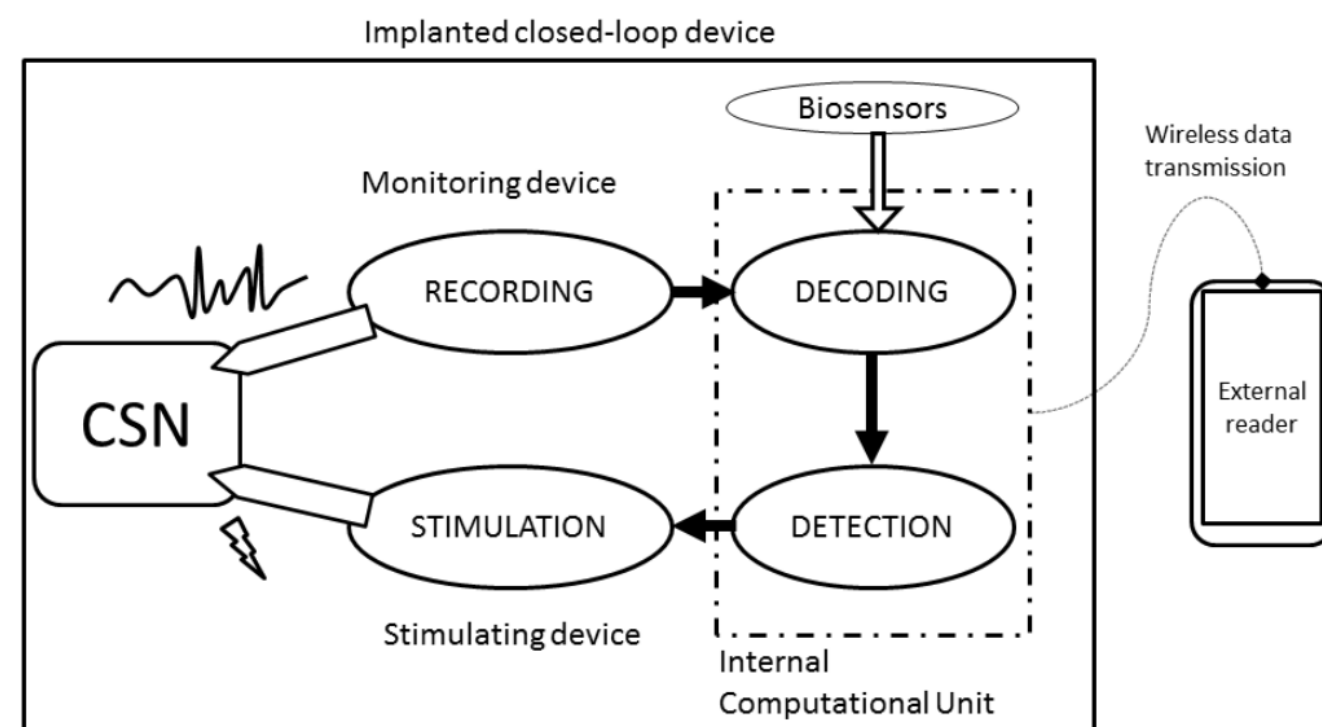


Fig. 2a

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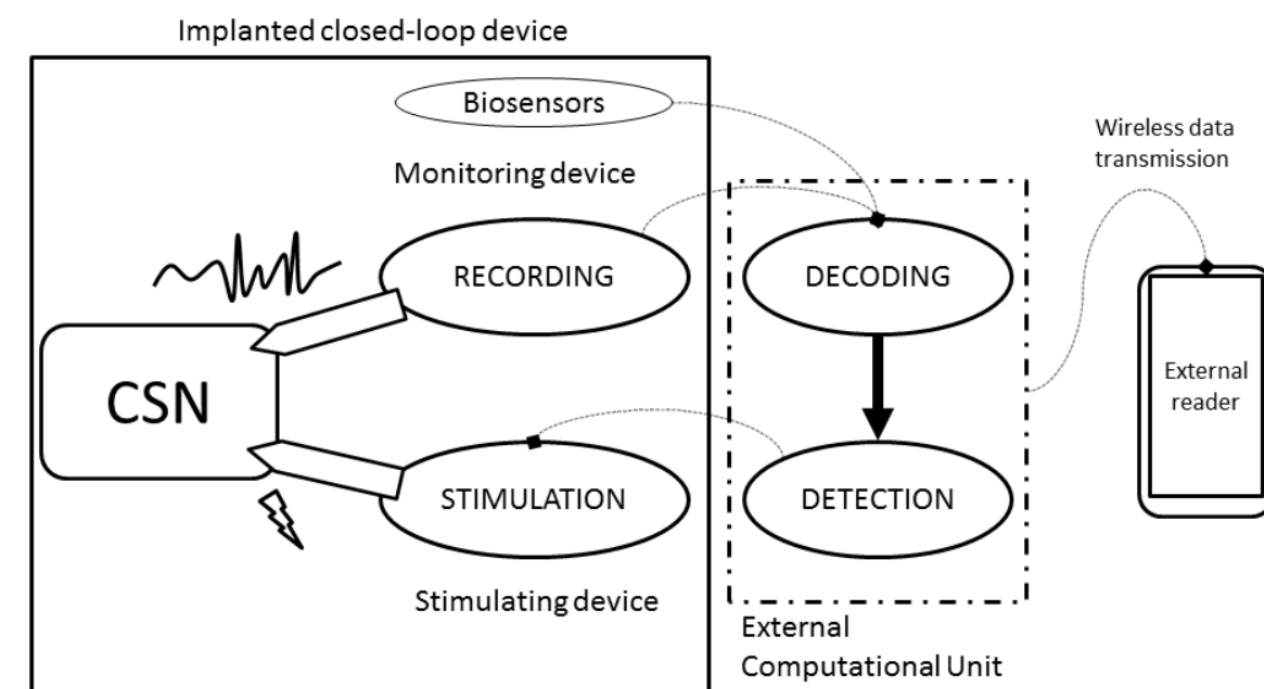


Fig. 2b

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Industrial applications



- monitoring and treating metabolic disorders, especially type 2 diabetes

Possible
developments



The research group is open for discussions with industrial partners interested in licensing the technology covered by this patent.

For more information:



Scuola Superiore Sant'Anna – Technology Transfer Office

Headquarters: Piazza Martiri della Libertà 33, 56127, Pisa

Web site: www.santannapisa.it

E-mail: uvr@santannapisa.it

For more information:



Ufficio Regionale di Trasferimento Tecnologico

Headquarters: Via Luigi Carlo Farini, 8 50121 Firenze (FI)

E-mail: urtt@regione.toscana.it



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