

Title (en)

WEARABLE BIOMONITOR WITH FLEXIBLE THINNED INTEGRATED CIRCUIT

Title (de)

TRAGBARER BIOMONITOR MIT FLEXIBLEM VERDÜNNTEM INTEGRIERTEM KREISLAUF

Title (fr)

BIOMONITEUR PORTABLE A CIRCUIT INTEGRE MINCE SOUPLE

Publication

EP 1451873 A4 20070117 (EN)

Application

EP 02805694 A 20020716

Priority

- US 0222617 W 20020716
- US 30535301 P 20010716

Abstract (en)

[origin: WO03065926A2] A sensor system (30) has a sensor module (10) and a receiver module (45). The sensor module (10) functions as a wireless data collection device and has a flexible thin sheet of silicon (60, 65, 70) comprising circuitry (71, 72, 73), a flexible power source (105), and a flexible support substrate (55). The silicon, power source, and flexible support substrate are integrated as layers of the sensor module (10). The layers are placed together in the form of an adhesive bandage (10). A plurality of electrodes (80) are connected to the sensor module (10) and protrude from the flexible substrate (55) for contacting the skin of a subject body (20). The receiver module (45) includes one of an RF receiver with a wireless port for continuously receiving data (40), or a physical I/O port (87) to which the sensor module (10) can be physically connected for downloading stored data from the sensor module (10).

IPC 8 full level

A61B 5/00 (2006.01); **A61B 5/296** (2021.01); **H01L 21/00** (2006.01); **H01L 21/44** (2006.01); **H01L 21/46** (2006.01); **H01L 23/02** (2006.01); **H01L 23/12** (2006.01); **H01L 27/14** (2006.01); **H01L 29/40** (2006.01); **H01L 29/417** (2006.01); **H01L 23/538** (2006.01)

IPC 8 main group level

A61F (2006.01)

CPC (source: EP US)

A61B 5/0002 (2013.01 - EP); **A61B 5/0006** (2013.01 - EP); **A61B 5/296** (2021.01 - EP); **A61B 5/389** (2021.01 - EP US); **A61B 5/6833** (2013.01 - EP); **A61B 2560/0412** (2013.01 - EP); **H01L 23/5388** (2013.01 - EP); **H01L 2924/0002** (2013.01 - EP)

Citation (search report)

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- See references of WO 03065926A2

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WO 03065926 A2 20030814; **WO 03065926 A3 20040610**; AU 2002365422 A1 20030902; AU 2002365422 A8 20030902; EP 1451873 A2 20040901; EP 1451873 A4 20070117

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