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[WO200262214](#)

Methods of determining concentration of glucose in blood
GLUCOSENS SENSE GLUCOSIDE

[WO200317834](#)

Biological signal sensor and device for recording biological signals
incorporating the said sensor
GEN3 GLUCOSENS SENSE GLUCOSIDE

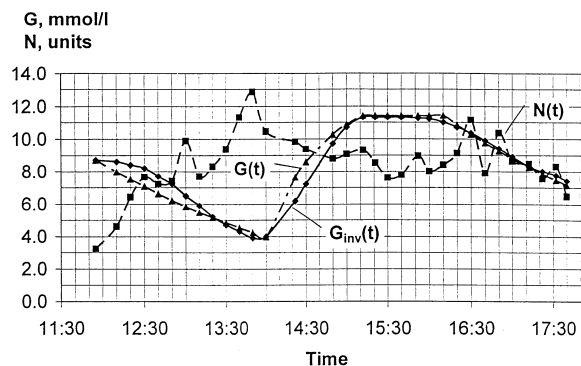
Methods of determining concentration of glucose in blood WO200262214

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| <ul style="list-style-type: none"> • Patent Assignee GLUCOSENS SENSE GLUCOSIDE • Inventor NOVIKOV IGOR A KISLOV ALEXANDER V • International Patent Classification A61B-005/00 A61B-005/05 A61B-005/053 A61B-005/145 • US Patent Classification PCLO=436095000 PCLX=436149000 PCLX=436150000 • CPC Code A61B-005/053; A61B-005/145/32; Y10T-436/104998; Y10T-436/144444 | <ul style="list-style-type: none"> • Publication Information WO200262214 A1 2002-08-15 [WO200262214] • Priority Details 2001US-60266774 2001-02-05 2002US-10068603 2002-02-05 2002WO-US03465 2002-02-05 | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Fampat family <table style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 33%;">WO02062214</td> <td style="width: 33%;">A1</td> <td style="width: 33%;">2002-08-15</td> <td style="width: 33%;">[WO200262214]</td> </tr> <tr> <td>US2002155615</td> <td>A1</td> <td>2002-10-24</td> <td>[US20020155615]</td> </tr> <tr> <td>KR20030031894</td> <td>A</td> <td>2003-04-23</td> <td>[KR20030031894]</td> </tr> <tr> <td>CN1471373</td> <td>A</td> <td>2004-01-28</td> <td>[CN1471373]</td> </tr> <tr> <td>JP2004526482</td> <td>A</td> <td>2004-09-02</td> <td>[JP2004526482]</td> </tr> <tr> <td>US6841389</td> <td>B2</td> <td>2005-01-11</td> <td>[US6841389]</td> </tr> </table> | | WO02062214 | A1 | 2002-08-15 | [WO200262214] | US2002155615 | A1 | 2002-10-24 | [US20020155615] | KR20030031894 | A | 2003-04-23 | [KR20030031894] | CN1471373 | A | 2004-01-28 | [CN1471373] | JP2004526482 | A | 2004-09-02 | [JP2004526482] | US6841389 | B2 | 2005-01-11 | [US6841389] |
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| CN1471373 | A | 2004-01-28 | [CN1471373] | | | | | | | | | | | | | | | | | | | | | | |
| JP2004526482 | A | 2004-09-02 | [JP2004526482] | | | | | | | | | | | | | | | | | | | | | | |
| US6841389 | B2 | 2005-01-11 | [US6841389] | | | | | | | | | | | | | | | | | | | | | | |

- **Abstract:**

(WO200262214)

A method of non-invasive determination of a glucose concentration in blood based on the measurements of the total impedance of the skin of a patient is disclosed. The method is based on a linear model of a first order correlation between the glucose concentration and the total impedance, the model taking into account the rate of change of the glucose concentration. The coefficients used in an approximating function are determined at the preliminary stage measurements by an invasive method.



Biological signal sensor and device for recording biological signals incorporating the said sensor

WO200317834

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|---|---|------------|-----------------|------------|---------------|-----------|----|------------|-------------|--------------|----|------------|-----------------|--------------|---|------------|----------------|-----------|----|------------|-------------|
| <ul style="list-style-type: none"> • Patent Assignee GEN3 GLUCOSENS SENSE GLUCOSIDE • Inventor KISLOV ALEXANDR V NOVIKOV IGOR A PETROVYKH SERGEY V KHOMYAKOV OLEG N • International Patent Classification A61B-005/0245 A61B-005/04 A61B-005/0408 A61B-005/0478 A61B-005/0492 A61B-005/05 A61B-005/053 • US Patent Classification PCLO=600393000 PCLX=600506000 PCLX=600547000 • CPC Code A61B-005/021/16; A61B-005/053/1 A61B-005/681; | <ul style="list-style-type: none"> • Publication Information WO03017834 A1 2003-03-06 [WO200317834] • Priority Details 2001US-60314925 2001-08-24 2001US-60314950 2001-08-24 2002WO-US27021 2002-08-23 2004US-10782542 2004-02-18 | | | | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Fampat family <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">WO03017834</td> <td style="width: 33%;">A1</td> <td style="width: 33%;">2003-03-06</td> <td style="width: 33%;">[WO200317834]</td> </tr> <tr> <td>EP1427332</td> <td>A1</td> <td>2004-06-16</td> <td>[EP1427332]</td> </tr> <tr> <td>US2004181141</td> <td>A1</td> <td>2004-09-16</td> <td>[US20040181141]</td> </tr> <tr> <td>JP2005500116</td> <td>A</td> <td>2005-01-06</td> <td>[JP2005500116]</td> </tr> <tr> <td>US6996428</td> <td>B2</td> <td>2006-02-07</td> <td>[US6996428]</td> </tr> </table> | | WO03017834 | A1 | 2003-03-06 | [WO200317834] | EP1427332 | A1 | 2004-06-16 | [EP1427332] | US2004181141 | A1 | 2004-09-16 | [US20040181141] | JP2005500116 | A | 2005-01-06 | [JP2005500116] | US6996428 | B2 | 2006-02-07 | [US6996428] |
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| US6996428 | B2 | 2006-02-07 | [US6996428] | | | | | | | | | | | | | | | | | | |

- **Abstract:**

(EP1427332)

The sensor has four electrodes arranged on a common base, three of which are made as closed circuits, placed one into another, whereas the fourth electrode is placed inside the smallest circuit. The external and the central electrodes form a pair of current-feeding electrodes, whereas the electrodes disposed between them form a pair of measuring electrodes. The second design option of the sensor has three electrodes, two of which are made as closed circuits placed one into another, whereas the third electrode is placed inside the electrode that is smaller. The external and the central electrodes form a pair of current-feeding electrodes, and the electrode arranged between them together with the external or the central electrode form a pair of measuring electrodes. The design of sensors makes it possible to use them in combination with biological signal sensors of non-rheographic modality, for example, pulse wave, temperature. The sensor may be incorporated in wristwatch or bracelet. (From US6996428 B2)

