



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 238 626 A3

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
12.02.2003 Bulletin 2003/07

(51) Int Cl. 7: A61B 5/00, A61B 5/044

(43) Date of publication A2:  
11.09.2002 Bulletin 2002/37

(21) Application number: 02005044.9

(22) Date of filing: 06.03.2002

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE TR

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 06.03.2001 JP 2001062437

(71) Applicant: Nihon Kohden Corporation  
Shinjuku-ku Tokyo (JP)

(72) Inventors:

- Kamataki, Osamu, c/oNihon Kohden Corporation  
Tokyo (JP)

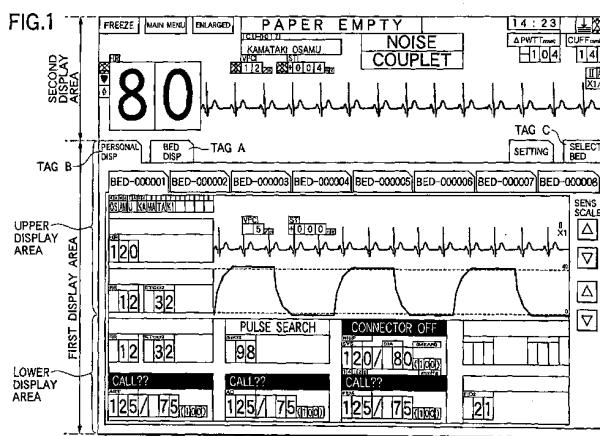
- Kawano, Junya, c/oNihon Kohden Corporation  
Tokyo (JP)
- Igarashi, Junichi, c/oNihon Kohden Corporation  
Tokyo (JP)
- Ono, Kohei, c/oNihon Kohden Corporation  
Tokyo (JP)

(74) Representative: Grünecker, Kinkeldey,  
Stockmair & Schwanhäusser Anwaltssozietät  
Maximilianstrasse 58  
80538 München (DE)

## (54) Vital sign display

(57) A bedside monitor includes first display means for simultaneously displaying, in a display area, parameter values of a plurality of vital signs measured for a plurality of patients and displaying alarm information within a parameter display area or an alarm display area in the display area when vital signs relevant to the parameters are in a state where an alarm is to be generated and for displaying prioritized alarm information from among alarm information pertaining to the plurality of vital sign parameters for each patient in the display area; second display means for displaying, in the display

area, parameter values of the vital signs and at least a vital sign waveform regarding vital signs of a specified patient among the plurality of patients and alarm information relevant to each of the parameters; and display changeover means, wherein the display area has the function of a touch panel selectable per each display area for each patient when the display area is displayed by the first display means, and the parameter values of the vital signs and the vital sign waveform of a patient selected as a result of pressing the touch panel is displayed by the second display means as the specified patient.





European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number

EP 02 00 5044

| DOCUMENTS CONSIDERED TO BE RELEVANT  |   |                   | CLASSIFICATION OF THE APPLICATION (Int.Cl.7) |
|--|---|-------------------|--|
| Category   | Citation of document with indication, where appropriate, of relevant passages   | Relevant to claim |  |
| X  | EP 1 054 338 A (AGILENT TECHNOLOGIES INC)<br>22 November 2000 (2000-11-22)<br>* column 1, line 55 – column 2, line 17 *<br>* column 3, line 7 – column 3, line 27 *<br>* column 4, line 3 – column 6, line 21 *<br>* claims 8,9 * | 1,2               | A61B5/00<br>A61B5/044                        |
| Y  | * column 2, line 46 – column 2, line 56 *<br>* column 6, line 10 – column 6, line 21 *<br>-----   | 3-6               |  |
| X  | EP 0 569 670 A (HEWLETT PACKARD CO)<br>18 November 1993 (1993-11-18)<br>* column 3, line 20 – column 3, line 29 *<br>* column 3, line 46 – column 3, line 53 *<br>* column 4, line 47 – column 5, line 7 *<br>* figure 4 *        | 1,2               |  |
| Y  | US 5 331 549 A (CRAWFORD JR JOHN M)<br>19 July 1994 (1994-07-19)<br>* column 6, line 34 – column 6, line 38 *<br>* column 8, line 22 – column 8, line 26 *<br>* column 6, line 60 – column 7, line 8 *                            | 3-6               | TECHNICAL FIELDS<br>SEARCHED (Int.Cl.7)      |
|  |   |                   | G06F<br>A61B                                 |
| The present search report has been drawn up for all claims                       |   |                   |  |
| Place of search  | Date of completion of the search  | Examiner          |  |
| THE HAGUE  | 19 December 2002  | Lommel, A         |  |
| CATEGORY OF CITED DOCUMENTS  |   |                   |  |
| X : particularly relevant if taken alone   | T : theory or principle underlying the invention  |                   |  |
| Y : particularly relevant if combined with another document of the same category | E : earlier patent document, but published on, or after the filing date   |                   |  |
| A : technological background   | D : document cited in the application   |                   |  |
| O : non-written disclosure   | L : document cited for other reasons  |                   |  |
| P : intermediate document  | & : member of the same patent family, corresponding document  |                   |  |

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 00 5044

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

19-12-2002

| Patent document cited in search report |   | Publication date |      | Patent family member(s) |            | Publication date |
|--|---|------------------|------|-------------------------|------------|------------------|
| EP 1054338                             | A | 22-11-2000       | EP   | 1054338 A1              | 22-11-2000 |                  |
|  |   |                  | JP   | 2001245855 A            | 11-09-2001 |                  |
|  |   |                  | US   | 2001014769 A1           | 16-08-2001 |                  |
| EP 0569670                             | A | 18-11-1993       | US   | 5262944 A               | 16-11-1993 |                  |
|  |   |                  | DE   | 69328649 D1             | 21-06-2000 |                  |
|  |   |                  | DE   | 69328649 T2             | 31-08-2000 |                  |
|  |   |                  | EP   | 0569670 A2              | 18-11-1993 |                  |
|  |   |                  | JP   | 7163527 A               | 27-06-1995 |                  |
| US 5331549                             | A | 19-07-1994       | NONE |                         |            |                  |

|                |  |         |            |
|----------------|--|---------|------------|
| 专利名称(译)        | 生命体征显示   |         |            |
| 公开(公告)号        | EP1238626A3  | 公开(公告)日 | 2003-02-12 |
| 申请号            | EP2002005044   | 申请日     | 2002-03-06 |
| [标]申请(专利权)人(译) | 日本光电工业株式会社   |         |            |
| 申请(专利权)人(译)    | 日本光电公司   |         |            |
| 当前申请(专利权)人(译)  | 日本光电公司   |         |            |
| 发明人            | KAMATAKI,OSAMU, C/ONIHON KOHDEN CORPORATION<br>KAWANO, JUNYA, C/ONIHON KOHDEN CORPORATION<br>IGARASHI, JUNICHI, C/ONIHON KOHDEN CORPORATION<br>ONO, KOHEI, C/ONIHON KOHDEN CORPORATION |         |            |
| IPC分类号         | G01D7/00 A61B5/00 A61B5/044  |         |            |
| CPC分类号         | A61B5/044 A61B5/0002 A61B5/742 A61B5/7445 G16H40/63  |         |            |
| 优先权            | 2001062437 2001-03-06 JP   |         |            |
| 其他公开文献         | EP1238626A2  |         |            |
| 外部链接           | <a href="#">Espacenet</a>  |         |            |

### 摘要(译)

床边监视器包括第一显示装置，用于在显示区域中同时显示为多个患者测量的多个生命体征的参数值，并在重要时在显示区域内的参数显示区域或警报显示区域内显示警报信息。与参数相关的符号处于要生成警报的状态，并且用于显示与显示区域中的每个患者的多个生命体征参数有关的警报信息中的优先警报信息;第二显示装置，用于在显示区域中显示生命体征的参数值和至少一个关于多个患者中指定患者的生命体征的生命体征波形和与每个参数相关的警报信息;显示切换装置，其中显示区域具有当第一显示装置显示显示器时每个患者每个显示区域可选择的触摸板功能，以及生命体征和生命体征波形的参数值。由第二显示装置显示作为按压触摸板的结果而选择的患者作为指定的患者。

