

# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number  
EP 15 84 8467

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                     |                                                                                                                     |                                                                                                                                                                                                                                                                              |                                                         |
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| Category                                                                                                                                                                                                                | Citation of document with indication, where appropriate, of relevant passages                                       | Relevant to claim                                                                                                                                                                                                                                                            | CLASSIFICATION OF THE APPLICATION (IPC)                 |
| X                                                                                                                                                                                                                       | US 2007/244724 A1 (PENDERGAST JOHN W [US] ET AL) 18 October 2007 (2007-10-18)                                       | 1,2,4-7,<br>10,11,<br>13,15                                                                                                                                                                                                                                                  | INV.<br>A61B5/00<br>G16H50/50<br>G16H50/20<br>G16H50/70 |
| Y                                                                                                                                                                                                                       | * paragraphs [0004] - [0029]; figures 1-3<br>*                                                                      | 3,8,9,<br>12,14                                                                                                                                                                                                                                                              |                                                         |
| X                                                                                                                                                                                                                       | US 2012/041277 A1 (EBADOLLAHI SHAHRAM [US] ET AL) 16 February 2012 (2012-02-16)                                     | 1,2,4,<br>6-8,11,<br>13,15                                                                                                                                                                                                                                                   |                                                         |
| Y                                                                                                                                                                                                                       | * paragraphs [0015] - [0040] *                                                                                      | 3,8,9,<br>12,14                                                                                                                                                                                                                                                              |                                                         |
| Y                                                                                                                                                                                                                       | WO 2008/060751 A1 (GEN ELECTRIC [US]; WARNER ADRIAN FRANCIS [US])<br>22 May 2008 (2008-05-22)<br>* pages 8-12 *     | 3                                                                                                                                                                                                                                                                            |                                                         |
| Y                                                                                                                                                                                                                       | US 2006/173663 A1 (LANGHEIER JASON [US] ET AL) 3 August 2006 (2006-08-03)<br>* paragraphs [0029] - [0037], [0059] * | 8,9,14                                                                                                                                                                                                                                                                       | TECHNICAL FIELDS<br>SEARCHED (IPC)                      |
|                                                                                                                                                                                                                         |                                                                                                                     |                                                                                                                                                                                                                                                                              | G16H<br>A61B                                            |
| The supplementary search report has been based on the last set of claims valid and available at the start of the search.                                                                                                |                                                                                                                     |                                                                                                                                                                                                                                                                              |                                                         |
| Place of search<br><b>Munich</b>                                                                                                                                                                                        |                                                                                                                     | Date of completion of the search<br><b>12 January 2018</b>                                                                                                                                                                                                                   | Examiner<br><b>Rivera Pons, Carlos</b>                  |
| CATEGORY OF CITED DOCUMENTS                                                                                                                                                                                             |                                                                                                                     | T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>& : member of the same patent family, corresponding document |                                                         |
| X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document |                                                                                                                     |                                                                                                                                                                                                                                                                              |                                                         |

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

EP 15 84 8467

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.

12-01-2018

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
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|----------------|----------------------------------------------------|---------|------------|
| 专利名称(译)        | 用于基于生理数据预测患者的连续心输出量 ( CCO ) 的方法和系统                 |         |            |
| 公开(公告)号        | <a href="#">EP3240470A4</a>                        | 公开(公告)日 | 2018-03-21 |
| 申请号            | EP2015848467                                       | 申请日     | 2015-10-09 |
| [标]申请(专利权)人(译) | Ashok Reddy                                        |         |            |
| [标]发明人         | KODURU PRAVEEN                                     |         |            |
| 发明人            | KODURU, PRAVEEN                                    |         |            |
| IPC分类号         | A61B5/00                                           |         |            |
| CPC分类号         | G16H50/50 G06F19/32 G06F19/36 G16H50/20 G16H50/70  |         |            |
| 优先权            | 14/877756 2015-10-07 US<br>62/061970 2014-10-09 US |         |            |
| 其他公开文献         | EP3240470A1                                        |         |            |
| 外部链接           | <a href="#">Espacenet</a>                          |         |            |

## 摘要(译)

本发明的各种实施例公开了一种用于在重症监护病房 ( ICU ) 中在手术后恢复期间预测患者的生理状况的方法和系统。生理条件是基于过去的生理数据提前的患者的连续心输出量 ( CCO ) 。该方法包括开发临床数据库，该临床数据库包含从具有相似患者概况的多个历史患者捕获的临床数据，临床数据包括历史患者的生理数据，生命体征，人口统计细节，治疗前症状和治疗，识别恢复模式对于类似的患者概况，其表现出对选择的治疗方案的同样响应，利用恢复模式来学习患者的生理参数的行为响应并创建预测模型以使得能够从已知的已知恢复模式自动分类类似的患者概况症状和对至少一种治疗方案的已知反应。



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SUPPLEMENTARY  
 EUROPEAN SEARCH REPORT

Application Number  
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| Category | DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                            | Relevance to the prior art                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Relevance to the state of the art                      |
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-------------------|--------------------------------------------------------|
| X        | Citation of document with indication, where appropriate, of relevant passages.                                                 | Relevant to the prior art                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Relevance to the state of the art                      |
| Y        | US 2007/244724 A1 (FERNBERGAST JOHN W [US]<br>ET AL) 18 October 2007 (2007-10-18)<br>* paragraphs [0004] - [0029]; figures 1-3 | 1, 2, 4, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 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597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000 | 1W,<br>AS165/00<br>G16H50/50<br>G16H50/20<br>G16H50/70 |
| Y        | US 2012/041277 A1 (ESADOLLAHI SHAHRAM [US]<br>ET AL) 16 February 2012 (2012-02-16)<br>* paragraphs [0015] - [0040]             | 1, 2, 4, 6, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 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797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000  | 1W,<br>AS165/00<br>G16H50/50<br>G16H50/20<br>G16H50/70 |
| Y        | WO 2008/060751 A1 (GEN ELECTRIC [US];<br>HARRER ADRIAN FRANCIS [US])<br>22 May 2008 (2008-05-22)<br>* pages 8-12               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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