

# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number  
EP 14 85 0179

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                       |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Category                                                                                                                                                                                                                                               | Citation of document with indication, where appropriate, of relevant passages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Relevant to claim                                                                                                                                                                                                                                                                     | CLASSIFICATION OF THE APPLICATION (IPC)                |
| X                                                                                                                                                                                                                                                      | US 2006/083415 A1 (EL FAKHRI GEORGES [US] ET AL) 20 April 2006 (2006-04-20)<br>* abstract; figures 1-3,5-10 *<br>* paragraphs [0011] - [0013], [0025] - [0032], [0038] - [0040], [0061] - [0068], [0076] - [0077] *                                                                                                                                                                                                                                                                                                                                                                         | 1-15                                                                                                                                                                                                                                                                                  | INV.<br>A61B5/02                                       |
| Y                                                                                                                                                                                                                                                      | WO 2012/135526 A2 (UNIV HOWARD [US]; ANDERSON JOHN M M [US])<br>4 October 2012 (2012-10-04)<br>* paragraphs [0001] - [0142]; claims 1-15; figure 1 *                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1-15                                                                                                                                                                                                                                                                                  |                                                        |
| Y                                                                                                                                                                                                                                                      | US 2003/048937 A1 (GULLBERG GRANT T [US] ET AL) 13 March 2003 (2003-03-13)<br>* paragraphs [0089] - [0098], [0103] - [0115]; figures 1-8 *                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1-15                                                                                                                                                                                                                                                                                  |                                                        |
| A                                                                                                                                                                                                                                                      | MEYER ET AL: "Assessment of input function distortions on kinetic model parameters in simulated dynamic <sup>82</sup> Rb PET perfusion studies",<br>NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A: ACCELERATORS, SPECTROMETERS, DETECTORS, AND ASSOCIATED EQUIP, ELSEVIER BV * NORTH-HOLLAND, NL, vol. 571, no. 1-2,<br>26 January 2007 (2007-01-26), pages 199-202, XP005737919,<br>ISSN: 0168-9002, DOI:<br>10.1016/J.NIMA.2006.10.062<br>* abstract *<br>* page 200, left-hand column, paragraph 1<br>- page 201, left-hand column, paragraph 1<br>*<br><br>-----<br>-/-- | 1-15                                                                                                                                                                                                                                                                                  | TECHNICAL FIELDS<br>SEARCHED (IPC)<br><br>A61B<br>G06T |
| 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>29 May 2017</b>                                                                                                                                                                                                                                | Examiner<br><b>Daoukou, Eleni</b>                      |
| CATEGORY OF CITED DOCUMENTS<br>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 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 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>-----<br>& : member of the same patent family, corresponding document |                                                        |

4

EPO FORM 1503 03.82 (P04C04)

# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number  
EP 14 85 0179

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                               |                                                        |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Citation of document with indication, where appropriate, of relevant passages                                                                                                                                                                                                                                                 | Relevant to claim                                      | CLASSIFICATION OF THE APPLICATION (IPC) |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>JI YOUNG AHN ET AL: "Quantification of regional myocardial blood flow using dynamic H2&lt;15&gt;O PET and factor analysis", THE JOURNAL OF NUCLEAR MEDI, SOCIETY OF NUCLEAR MEDICINE, US, vol. 42, no. 5, 1 May 2001 (2001-05-01), pages 782-787, XP009105384, ISSN: 0161-5505<br/>* abstract; figures 1-5 *<br/>-----</p> | 1-15                                                   |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                               |                                                        | TECHNICAL FIELDS SEARCHED (IPC)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                               |                                                        |                                         |
| 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>29 May 2017</b> | Examiner<br><b>Daoukou, Eleni</b>       |
| <p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>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</p> <p>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/>.....<br/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                                                                                                                                                                                                                                               |                                                        |                                         |

4

EPO FORM 1503 03.82 (P04C04)

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

EP 14 85 0179

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.

29-05-2017

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---------------------|----------------------------|---------------------|
| US 2006083415 A1                          | 20-04-2006          | US 2006083415 A1           | 20-04-2006          |
|                                           |                     | US 2007014463 A1           | 18-01-2007          |
|                                           |                     | US 2009226064 A1           | 10-09-2009          |
|                                           |                     | WO 2006044552 A2           | 27-04-2006          |
| -----                                     |                     |                            |                     |
| WO 2012135526 A2                          | 04-10-2012          | EP 2691017 A2              | 05-02-2014          |
|                                           |                     | US 2014016850 A1           | 16-01-2014          |
|                                           |                     | WO 2012135526 A2           | 04-10-2012          |
| -----                                     |                     |                            |                     |
| US 2003048937 A1                          | 13-03-2003          | NONE                       |                     |
| -----                                     |                     |                            |                     |