



(11) **EP 2 022 792 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**  
published in accordance with Art. 153(4) EPC

(15) Correction information:  
**Corrected version no 1 (W1 A1)**  
**Corrections, see**  
**Bibliography INID code(s) 72**

(51) Int Cl.:  
**C07D 471/04** <sup>(2006.01)</sup> **A61K 51/00** <sup>(2006.01)</sup>  
**C07F 7/22** <sup>(2006.01)</sup>

(48) Corrigendum issued on:  
**29.04.2009 Bulletin 2009/18**

(86) International application number:  
**PCT/JP2007/059048**

(43) Date of publication:  
**11.02.2009 Bulletin 2009/07**

(87) International publication number:  
**WO 2007/125988 (08.11.2007 Gazette 2007/45)**

(21) Application number: **07742483.6**

(22) Date of filing: **26.04.2007**

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR**

- **NAKAMURA, Daisaku,**  
**c/o NIHON MEDI-PHYSICS CO., LTD.**  
**Sodegaura-shi, Chiba 299-0266 (JP)**
- **TAKASAKI, Shinya,**  
**c/o NIHON MEDI-PHYSICS CO., LTD.**  
**Sodegaura-shi, Chiba 299-0266 (JP)**

(30) Priority: **28.04.2006 JP 2006124811**

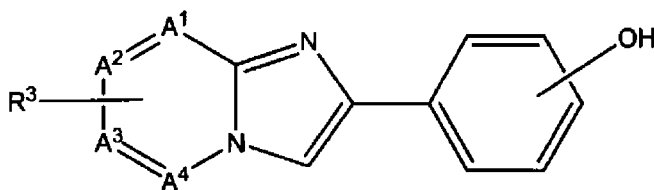
(71) Applicant: **NIHON MEDI-PHYSICS CO., LTD.**  
**Tokyo 136-0075 (JP)**

(74) Representative: **Wilhelms · Kilian & Partner**  
**Patentanwälte**  
**Eduard-Schmid-Strasse 2**  
**81541 München (DE)**

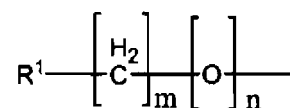
(72) Inventors:  
• **TANIFUJI, Shigeyuki,**  
**c/o NIHON MEDI-PHYSICS CO., LTD.**  
**Sodegaura-shi, Chiba 299-0266 (JP)**

(54) **NOVEL COMPOUND HAVING AFFINITY TO AMYLOID**

(57) The invention relates to a compound which has affinity with amyloid, shows sufficiently rapid clearance from normal tissues and is suppressed in toxicity such as mutagenicity, and also relates to a low-toxic diagnostic agent for Alzheimer's disease containing the compound. The compound is represented by the following formula (1) or a salt thereof:



wherein A<sup>1</sup>, A<sup>2</sup>, A<sup>3</sup> and A<sup>4</sup> independently represent a carbon or a nitrogen, and R<sup>3</sup> is a group represented by the following formula:



wherein  $R^1$  is a radioactive halogen substituent;  $m$  is an integer of 0 to 4; and  $n$  is an integer of 0 or 1, provided that at least one of  $A^1$ ,  $A^2$ ,  $A^3$  and  $A^4$  represents a carbon, and  $R^3$  binds to a carbon represented by  $A^1$ ,  $A^2$ ,  $A^3$  or  $A^4$ .