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(54) Title: USE OF L-POLYNUCLEOTIDES AND DERIVATIVES THEREOF FOR IN VIVO IMAGING

(57) Abstract: The present invention relates to the use of a L-polynucleotide for in vivo imaging. Preferably, the L-polynucleotide is a Spiegelmer.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K49/00 A61K49/04 A61K51/04 A61K49/12		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, BIOSIS, MEDLINE, EMBASE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94 20523 A (BURROUGHS WELLCOME CO ;SNOW ROBERT ALLEN (US); BLACK CHRISTOPHER D) 15 September 1994 (1994-09-15) abstract page 1, line 9 - line 14 * structure III * page 12, line 35 -page 13, line 29 page 56, line 24 -page 57, line 33 examples --- -/--	1-21
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed		*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Villa Riva, A

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International Application No
PCT/EP 02/06378

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WILLIAMS KELLY P ET AL: "Bioactive and nuclease-resistant L-DNA ligand of vasopressin." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 94, no. 21, 1997, pages 11285-11290, XP002185340 1997 ISSN: 0027-8424 abstract page 11289, right-hand column, line 10 - line 25 page 1290, left-hand column, line 29 - line 40</p> <p style="text-align: center;">---</p>	1-24
Y	<p>NOLTE A ET AL: "MIRROR-DESIGN OF L-OLIGONUCLEOTIDE LIGANDS BINDING TO L-ARGININE" NATURE BIOTECHNOLOGY, NATURE PUBLISHING, US, vol. 14, 1 September 1996 (1996-09-01), pages 1116-1119, XP002039162 ISSN: 1087-0156 abstract page 1118, left-hand column, line 27 - line 43</p> <p style="text-align: center;">---</p>	1-24
Y	<p>WO 96 34879 A (WHITEHEAD BIOMEDICAL INST ;KIM PETER S (US); SCHUMACHER ANTONIUS N) 7 November 1996 (1996-11-07) page 3, line 3 - line 14 page 4, line 12 - line 32 page 9, line 1 - line 3</p> <p style="text-align: center;">---</p>	1-24
Y	<p>WO 98 08856 A (BALD ROLF ;ERDMANN VOLKER A (DE); FUERSTE JENS PETER (DE)) 5 March 1998 (1998-03-05) cited in the application the whole document</p> <p style="text-align: center;">---</p>	1-24
Y	<p>DOLLE FREDERIC ET AL: "A general method for labeling oligodeoxynucleotides with ¹⁸F for in vivo PET imaging." JOURNAL OF LABELLED COMPOUNDS AND RADIOPHARMACEUTICALS, vol. 39, no. 4, 1997, pages 319-330, XP001038207 ISSN: 0362-4803 * the whole document, see in particular p. 328, l. 10-14 *</p> <p style="text-align: center;">---</p> <p style="text-align: center;">-/--</p>	23,24

INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MOYROUD E ET AL: "Synthesis and Enzymatic Digestion of an RNA Nonamer in Both Enantiomeric Forms" TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 56, no. 11, March 2000 (2000-03), pages 1475-1484, XP004203025 ISSN: 0040-4020 the whole document -----	1-24

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
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