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A. CLASSIFICATION OF SUBJECT MATTER
INV. C12N15/10 C12N15/62 C12P21/00 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) C12N 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, BIOSIS, EMBASE, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. JUNG S ET AL: "Selectively infective Υ 1 - 26phage (SIP) technology: scope and limitations" JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 231, no. 1-2, 10 December 1999 (1999-12-10), pages 93-104, XP004187637 ISSN: 0022-1759 the whole document Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: *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 "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 "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 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) 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 docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filling date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 5 July 2007 17/07/2007 Name and mailing address of the ISA/ Authorized officer Ruropean Patent Office, P.B. 5816 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Perez, Caroline

INTERNATIONAL SEARCH REPORT

International application No

		PCT/IB2007/000128					
C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT							
ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
,	BJORKLUND M ET AL: "Use of intein-directed biosynthesis to improve serum stability and bioactivity of a gelatinase inhibitory peptide" COMBINATORIAL CHEMISTRY AND HIGH THROUGHPUT SCREENING, HILVERSUM, NL, vol. 6, 2003, pages 29-35, XP002984195 ISSN: 1386-2073	1–26					
· ·	the whole document	13,14, 16,17					
	WO 2004/029245 A (CTT CANCER TARGETING TECHNOLOGIES OY; VALTANEN, HELI; BJOERKLUND, MIKA) 8 April 2004 (2004-04-08) page 2, line 31 - page 6; claims 1-23	1-26					
(page 9, line 15 - page 21, line 11	13,14, 16,17					
(WO 02/46208 A (ELUSYS THERAPEUTICS, INC; HIMAWAN, JEFF) 13 June 2002 (2002-06-13) page 5, line 32 - page 11, line 10 page 65 - page 68; example example	15,19					
	US 5 834 247 A (COMB ET AL) 10 November 1998 (1998-11-10) column 1, line 65 - column 3, line 52; examples 22,and,25	15,19					
A	MONDON P ET AL: "Technologies of recombinant human antibodies" BIOFUTUR 2005 FRANCE, no. 258, 2005, pages 34-40, XP009065012 ISSN: 0294-3506	1-26					
	the whole document						

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/IB2007/000128

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
WO 2004029245	A	08-04-2004	AU CA CN EP JP US	1543121	A1 A A1 T	19-04-2004 08-04-2004 30-11-2005 22-06-2005 11-05-2006 26-10-2006
WO 0246208	Α	13-06-2002	AU CA EP JP	4155602 2427820 1339427 2004515233	A1	18-06-2002 13-06-2002 03-09-2003 27-05-2004
US 5834247	Α	10-11-1998	NONE			