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- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
 - *with sequence listing part of description (Rule 5.2(a))*

(88) Date of publication of the international search report:
16 August 2012

A. CLASSIFICATION OF SUBJECT MATTER

A61K 39/395(2006.01)i, A61K 48/00(2006.01)i, A61K 38/18(2006.01)i, A61K 38/16(2006.01)i, A61P 7/06(2006.01)i, A61P 7/00(2006.01)i

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)

A61K 39/395; C12P 21/00; A61K 51/00; C07K 16/00; G01N 33/53

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 practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: IL-6 antagonist, anti-IL-6 antibody, anemia, cancer, chemotherapy, mucositis, rheumatoid arthritis

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010-0150829 A1 (LEON GARCIA-MARTINEZ et al.) 17 June 2010 See paragraphs [0035], [0060] - [0064], [0337], [0697], and [0701] - [0704]; claims 201 and 215; table 1.	6-10, 157-180, 203 , 236, 309, 315 , 361-369, 403 , 409-418 304 156, 303, 305-307
Y A		
X	JOSEP DOMINGO-DOMENECH et al. 'Interleukin 6, a nuclear factor- κ B target, predicts resistance to docetaxel in hormone-independent prostate cancer and nuclear factor- κ B inhibition by PS-1145 enhances docetaxel antitumor activity' Clin. Cancer Res., 2006, Vol. 12, No. 18, pp. 5578-5586, ISSN 1078-0432. See abstract; p. 5579, right-column; p. 5583.	156
X	J-F ROSSI et al. 'Optimizing the use of anti-interleukin-6 monoclonal antibody with dexamethasone and 140 mg/m ² of melphalan in multiple myeloma: results of a pilot study including biological aspects' Bone Marrow Transplantation, 2005, Vol. 36, No. 9, pp. 771-779, ISSN 0268-3369.	303, 305-307
Y	See summary; p. 772, left-column; p. 774.	304

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent 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 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

Date of the actual completion of the international search

26 JUNE 2012 (26.06.2012)

Date of mailing of the international search report

26 JUNE 2012 (26.06.2012)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2011/062131

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0138945 A1 (GERHARD FREY et al.) 03 June 2010 See claims 1, 3, 11, 12, 18, and 21.	6-10, 156-180, 203 , 236, 303-307, 309 , 315, 361-369, 403 , 409-418
A	US 2006-0251653 A1 (OSAMU OKUDA et al.) 09 November 2006 See claims 1, 6, and 15; paragraph [0140].	6-10, 156-180, 203 , 236, 303-307, 309 , 315, 361-369, 403 , 409-418
A	US 2007-0292420 A1 (JILL GILES-KOMAR et al.) 20 December 2007 See paragraphs [0018] and [0037]; claims 1, 2, 12, and 13.	6-10, 156-180, 203 , 236, 303-307, 309 , 315, 361-369, 403 , 409-418

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 1-5, 11-155, 195-202, 258, 259, 308, 310-314, 316-360, 402, 404-408
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 1-5, 11-155, 195-202, 258, 259, 308, 310-314, 316-360, 402, and 404-408 pertain to methods for treatment of the human body by therapy as well as diagnostic methods, and thus relate to a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.
2. Claims Nos.: (See extra sheet)
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
See extra sheet.
3. Claims Nos.: (See extra sheet)
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

Continuation of Box No. II (2nd reason)

Claims Nos.: 51, 56-59, 66-69, 76, 81, 88, 92-94, 96, 100-102, 109, 110, 112-114, 117-135, 137, 151, 152, 181, 210-213, 220-223, 230, 235, 241, 246-248, 250, 254-256, 263, 264, 266-268, 271-289, 291, 295, 335, 336, 338, 339, 341-344, 385-388, 391

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

Claims 56-59, 66-69, 76, 81, 88, 92-94, 96, 100-102, 109, 110, 112-114, 117-135, 137, 151, 152, 210-213, 230, 235, 241, 246-248, 250, 254-256, 263, 264, 266-268, 271-289, 291, 335, 336, 338, 339, 342-344, 385-388, and 391 refer to one of claims which are not drafted in accordance with PCT Rule 6.4(a).

Claims 51, 181, 220-222, and 295 are not clear, because they respectively direct themselves as the claim to which they refer (PCT Article 6).

Claim 223 refers to claim 222 which is not drafted in accordance with PCT Article 6.

Claim 341 is unclear, since it refers to any one of claims 419-3340 which do not exist.

Continuation of Box No. II (3rd reason)

Claims Nos.: 27, 32, 36-38, 51, 54, 55, 60-65, 70-75, 77-80, 82, 84-87, 89-91, 95, 97-99, 103-108, 111, 115, 116, 136, 138-150, 181-202, 204-209, 214-219, 224-229, 231-234, 237-240, 242-245, 249, 251-253, 257, 260-262, 265, 269, 270, 290, 292-302, 313, 320-334, 337, 340, 341, 345-360, 370-384, 389, 390, 392-401, 408

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/062131

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