

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/032603

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. C07D233/64 (2006.01) i, C07F3/06 (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)

Int. Cl. C07D233/64, C07F3/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996

Published unexamined utility model applications of Japan 1971-2018

Registered utility model specifications of Japan 1996-2018

Published registered utility model applications of Japan 1994-2018

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAplus/REGISTRY (STN), CASREACT (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	PIETTA, P. G. et al. β -Alanyl-L-histidine, Annali di Chimica, 1968, vol. 58, no. 11, pp. 1431-1434, ISSN 0003-4592, entire text	1-10 12-17 11
X A	OKULOV, V. N. et al., Synthesis of new ferrocene derivatives with rod-like structure, Mendeleev Communications, 2015, vol. 25, no. 2, pp. 111-113, ISSN 0959-9436, scheme 1	10-11 1-9, 12-17
X A	COTRAIT, M. et al., Synthesis, crystal structure and infrared spectra of α -alanylaminomethylphosphonic acid, Journal of Molecular Structure, 1978, vol. 50, no. 2, pp. 313-324, ISSN 0022-2860, page 314, compound III	10-11 1-9, 12-17



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 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

Date of the actual completion of the international search
26.09.2018Date of mailing of the international search report
09.10.2018Name and mailing address of the ISA/
Japan Patent Office
3-4-3, Kasumigaseki, Chiyoda-ku,
Tokyo 100-8915, Japan

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PCT/JP2018/032603

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	SHIBA, T. et al., Synthesis and stereochemistry of hypusine, a new amino acid in bovine brain, Bulletin of the Chemical Society of Japan, 1982, vol. 55, no. 3, pp. 899-903, ISSN 0009-2673, experimental	10-11 1-9, 12-17
X A	CN 102702039 A (HENAN AGRICULTURAL UNIVERSITY) 03 October 2012, paragraphs [0026]-[0042] (Family: none)	10-11 1-9, 12-17
X A	LEWIS, C. A. et al., Catalytic site-selective synthesis and evaluation of a series of erythromycin analogs, Bioorganic & Medicinal Chemistry Letters, 2008, vol. 18, no. 22, pp. 6007-6011, ISSN 0960-894X, table 2	10 1-9, 11-17
X Y A	MURAMATSU, I. et al., Studies on the synthesis of peptides by N, N'-dicyclohexylcarbodiimide. The formation of bis (N-acylamino acid) anhydrides, Nippon Kagaku Zasshi, 1959, vol. 80, pp. 1497-1501, ISSN 0369-5387, section 2.4.2	10 12 1-9, 11, 13-17
X Y A	LIANG, X. et al., Poly (oxanorbornenedicarboximide) dendronized with amphiphilic poly (alkyl ether) dendrons, Journal of Polymer Science, Part A: Polymer Chemistry, 2014, vol. 52, no. 22, pp. 3221-3239, ISSN 0887-624X, scheme 4	10 12 1-9, 11, 13-17
Y A	CN 101357884 A (ZHEJIANG UNIVERSITY OF TECHNOLOGY) 04 February 2009, entire text (Family: none)	12 1-11, 13-17
Y A	JP 64-42471 A (HAMARI YAKUJIN KOGYO KK) 14 February 1989, claims, page 2, lower left column, line 9 to page 3, upper left column, line 10, examples 1-2 (Family: none)	13-17 1-12
Y A	JP 2007-204397 A (TOKUYAMA CORP.) 16 August 2007, claims, paragraphs [0023]-[0034], examples (Family: none)	13-17 1-12
Y A	WO 2015/119235 A1 (TOKUYAMA CORP.) 13 August 2015, claims, paragraphs [0021]-[0043], examples & CN 105899520 A & KR 10-2016-0119058 A	13-17 1-12

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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.
Y A	CN 103319413 A (TIBET HAISCO PHARMACEUTICAL GROUP CO. LTD.) 25 September 2013, example 1 (Family: none)	13-17 1-12
A	JP 58-188862 A (AJINOMOTO CO., INC.) 04 November 1983, entire text (Family: none)	1-17