

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/041971

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. C07D249/08 (2006.01)i, A01N43/653 (2006.01)i, A01P3/00 (2006.01)i,
C07D401/06 (2006.01)i, C07D401/12 (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. C07D249/08, A01N43/653, A01P3/00, C07D401/06, C07D401/12

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.
A	JP 58-170770 A (IMPERIAL CHEMICAL INDUSTRIES PLC) 07 October 1983, claims, examples & EP 99165 A1, claims, examples	1-14
A	WO 2013/007767 A1 (BASF SE) 17 January 2013, claims, examples & JP 2014-520832 A & US 2014/0155262 A1 & EP 2731935 A1 & CN 103649057 A & KR 10-2014-0022483 A	1-14

☒ 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

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"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
12 December 2018 (12.12.2018)

Date of mailing of the international search report
15 January 2019 (15.01.2019)

Name and mailing address of the ISA/
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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	JP 59-31766 A (CIBA-GEIGY AG) 20 February 1984, claims, examples & US 4533659 A, claims, examples & EP 96660 A1	1-14
A	WO 93/11118 A1 (SCHERING AGROCHEMICALS LIMITED) 10 June 1993, claims, examples & JP 7-501801 A & EP 619812 A1 & CN 1075478 A	1-14
A	WO 2011/136268 A1 (SHIONOGI & CO., LTD.) 03 November 2011, paragraphs [0252]-[0253] & US 2013/0096299 A1	1-14
A	GUO, S. et al., "Metal-free oxidative esterification of acetophenones with alcohols: a facile one-pot approach to α -ketoesters", RSC Advances, 2016, vol. 6, no. 100, pp. 98422-98426, ISSN 2046-2069, schemes 1-2, tables 1-2	1-14
A	YANG, L. et al., "Synthesis of Pelorol and Analogs: Activators of the Inositol 5-Phosphatase SHIP", Organic Letters, 2005, vol. 7, no. 6, pp. 1073-1076, ISSN 1523-7060, supporting information pp. 8-9	1-14