

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/124130

A. CLASSIFICATION OF SUBJECT MATTER		
C07D 401/10(2006.01)i; A01N 43/56(2006.01)i; C07C 211/04(2006.01)i; C07C 209/00(2006.01)i; A01P 13/00(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) C07D, C07C, A01N, A01P		
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) CNABS, CNTXT, WPI, EPODOC, CAPLUS (STN), CNKI: 青岛清原, 江苏清原, 环吡氟草酮, 草酮, 吡唑, 酮, 二甲胺, 二乙胺, 结晶, 晶型, 晶体, 除草, 农药, pyrazole, ketone, huanbifucaotong, crystal, recrystal, recrystallize, recrystallization, herbicide, herbicidal, 1855929-45-1, 124-40-3, 109-89-7		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 105218449 A (QINGDAO QINGYUAN COMPOUND CO., LTD.) 06 January 2016 (2016-01-06) description, paragraphs [0007]-[0014], [0016], [0028] and [0090]	1-10
A	CN 107629035 A (QINGDAO QINGYUAN COMPOUND CO., LTD.) 26 January 2018 (2018-01-26) description, paragraphs [0004]-[0026]	1-10
A	WO 97/46530 A1 (E.I. DU PONT DE NEMOURS AND COMPANY et al.) 11 December 1997 (1997-12-11) description, pages 28 and 29, and page 44, table 8	1-10
A	CN 106472517 A (JIANGSU QINGYUAN NONGGUAN WEED CONTROL CO., LTD.) 08 March 2017 (2017-03-08) claim 1	1-10
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 09 September 2019		Date of mailing of the international search report 26 September 2019
Name and mailing address of the ISA/CN China National Intellectual Property Administration (ISA/CN) No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088 China		Authorized officer
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Information on patent family members

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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
CN	105218449	A	06 January 2016	EP	3287445	A1	28 February 2018
				BR	112018007527	A2	23 October 2018
				EP	3287445	A4	31 October 2018
				AU	2016350960	A1	05 October 2017
				CA	2979570	A1	11 May 2017
				US	2018055054	A1	01 March 2018
				CN	105218449	B	11 August 2017
				AU	2016350960	B2	27 September 2018
				WO	2017075910	A1	11 May 2017
				CN	107311980	A	03 November 2017
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CN	107629035	A	26 January 2018	WO	2019080224	A1	02 May 2019
WO	97/46530	A1	11 December 1997	AU	3297397	A	05 January 1998
				EP	0922032	A1	16 June 1999
				WO	9746530	A1	11 December 1997
				CA	2257196	A1	11 December 1997
CN	106472517	A	08 March 2017	WO	2018058904	A1	05 April 2018
				CN	106472517	B	02 November 2018