

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
21 August 2008 (21.08.2008)

PCT

(10) International Publication Number  
**WO 2008/098657 A3**

(51) International Patent Classification:

A01N 43/50 (2006.01) A01P 9/00 (2006.01)  
A01P 5/00 (2006.01) C07D 233/22 (2006.01)  
A01P 7/02 (2006.01) C07D 233/24 (2006.01)  
A01P 7/04 (2006.01)

(74) Agent: SYNGENTA LIMITED; Intellectual Property Department, P.O. Box 3538, Jealott's Hill International Research Centre, Bracknell, Berks RG42 6YA (GB).

(21) International Application Number:

PCT/EP2008/000366

(22) International Filing Date: 18 January 2008 (18.01.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

07003189.3 15 February 2007 (15.02.2007) EP

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): SYNGENTA PARTICIPATIONS AG [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): O'SULLIVAN, Anthony, Cornelius [GB/CH]; Syngenta Crop Protection AG, Werk Stein, Schaffhauserstrasse, CH-4332 Stein (CH). LUETHY, Christoph [CH/CH]; Syngenta Crop Protection AG, Werk Rosental, Schwarzwaldallee 215, CH-4058 Basel (CH). SCHAETZER, Jürgen, Harry [DE/CH]; Syngenta Crop Protection AG, Werk Stein,, Schaffhauserstrasse, CH-4332 Stein (CH).

Published:

— with international search report  
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
15 January 2009

(54) Title: CHEMICAL COMPOUNDS

(57) Abstract: The present invention relates to imidazoline derivatives and their use as insecticidal, acaricidal, molluscicidal and nematocidal agents. The invention also extends to insecticidal, acaricidal, molluscicidal and nematocidal compositions comprising such imidazoline derivatives, and to methods of using such derivatives and/or compositions to combat and control insect, acarine, mollusc and nematode pests. In particular the present invention relates to imidazolines with alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aryl, heteroaryl or heterocyclyl substituents.



WO 2008/098657 A3

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2008/000366

**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. A01N43/50 A01P5/00 A01P7/02 A01P7/04 A01P9/00  
 C07D233/22 C07D233/24

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)  
 A01N C07D

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, CHEM ABS Data, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 232 011 A1 (BOEGER MANFRED ET AL) 4 November 1980 (1980-11-04) cited in the application the whole document	1-18,23
X	US 4 233 306 A1 (BOEGER MANFRED ET AL) 11 November 1980 (1980-11-11) cited in the application the whole document	1-18,23
X	US 4 241 075 A1 (DRABEK JOZEF [CH] ET AL) 23 December 1980 (1980-12-23) cited in the application the whole document	1-18,23
	-/--	

Further documents are listed in the continuation of Box C.  See patent family annex.

\* Special categories of cited documents :

<p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*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)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p>	<p>*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</p> <p>*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</p> <p>*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.</p> <p>*Z* document member of the same patent family</p>
--	--

Date of the actual completion of the international search  <b>12 November 2008</b>	Date of mailing of the international search report  <b>25/11/2008</b>
--	---

Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  <b>Bertrand, Franck</b>
--	---

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2008/000366

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 388 496 A (CIBA GEIGY AG [CH]) 24 November 1978 (1978-11-24) cited in the application the whole document	1-18,23
X	US 4 276 302 A1 (BRECHBUHLER HANS U ET AL) 30 June 1981 (1981-06-30) cited in the application the whole document	1-18,23
X	US 4 228 175 A1 (BOEGER MANFRED ET AL) 14 October 1980 (1980-10-14) the whole document	1-18,23
X	US 5 128 361 A1 (STARK HERBERT [DE] ET AL) 7 July 1992 (1992-07-07) cited in the application the whole document	1-18,23
X	DE 29 40 167 A1 (CIBA GEIGY AG) 17 April 1980 (1980-04-17) the whole document	1-23
X	GB 1 592 649 A (WELLCOME FOUND) 8 July 1981 (1981-07-08) the whole document	1-23
X	GB 1 593 276 A (WELLCOME FOUND) 15 July 1981 (1981-07-15) the whole document	1-23
X	EP 0 049 797 A (BAYER AG [DE]) 21 April 1982 (1982-04-21) the whole document	1-18
X	GB 2 023 603 A (WELLCOME FOUND) 3 January 1980 (1980-01-03) the whole document	1-18,23

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2008/000366

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4232011	A1	NONE	
US 4233306	A1	NONE	
US 4241075	A1	NONE	
FR 2388496	A	24-11-1978	
		AU 3546478 A	01-11-1979
		BE 866513 A1	30-10-1978
		BR 7802699 A	03-04-1979
		DE 2818367 A1	02-11-1978
		JP 53136524 A	29-11-1978
		NL 7804482 A	31-10-1978
		NZ 187119 A	19-11-1981
		OA 6091 A	30-06-1981
US 4276302	A1	NONE	
US 4228175	A1	NONE	
US 5128361	A1	NONE	
DE 2940167	A1	17-04-1980	
GB 1592649	A	08-07-1981	
		AU 520875 B2	04-03-1982
		BE 862022 A1	19-06-1978
		ZA 7707535 A	31-10-1979
		ZA 7707536 A	25-07-1979
GB 1593276	A	15-07-1981	
EP 0049797	A	21-04-1982	
		DE 3038395 A1	19-05-1982
GB 2023603	A	03-01-1980	
		NONE	