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(54) Title: INCREASING PLANT VIGOR

(57) Abstract: Compositions and processes for improving plant vigor are disclosed.

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A. CLASSIFICATION OF SUBJECT MATTER
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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

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, 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	WO 2006/060029 A (DOW AGROSCIENCES LLC [US]) 8 June 2006 (2006-06-08) page 31, line 9 - page 48, line 7; table 1; compounds 1-5,7-10,13-21, 23-26, 28, 29, 33, 36-41 page 48, line 15 - line 19	1-4
A	S. CAO ET AL.: "Synthesis and insecticidal activity of new 2-(5-(trifluoromethyl)pyridyloxymethyl)-1,3,4-oxadiazoles" JOURNAL OF FLUORINE CHEMISTRY, vol. 117, 2002, - 2002 pages 63-66, XP002509292 page 63, columns 1-2, paragraph 2	1-4
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Further documents are listed in the continuation of Box C.

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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.
P, X	WO 2007/149134 A (DOW AGROSCIENCES LLC [US]) 27 December 2007 (2007-12-27) the whole document In particular: page 21, line 17 - page 33, line 14 page 33, lines 4-8 -----	1-4
P, X	WO 2007/095229 A (DOW AGROSCIENCES LLC [US]) 23 August 2007 (2007-08-23) the whole document In particular: page 43, line 16 - page 54, line 11 page 54, lines 7-11 -----	1-4
P, X	WO 2008/027073 A (DOW AGROSCIENCES LLC [US]) 6 March 2008 (2008-03-06) the whole document In particular:- page 9 - page 19, line 4 page 26, lines 8-13 -----	1-4

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2006060029	A	08-06-2006	AU 2005310314 A1	08-06-2006
			BR PI0509695 A	09-10-2007
			CA 2558647 A1	08-06-2006
			CN 1942442 A	04-04-2007
			EP 1732895 A2	20-12-2006
			JP 2007532568 T	15-11-2007
			WO 2007149134	A
			AU 2007261706 A1	27-12-2007
			US 2007299264 A1	27-12-2007
WO 2007095229	A	23-08-2007	AR 059437 A1	09-04-2008
			AU 2007215167 A1	23-08-2007
			CA 2639911 A1	23-08-2007
			EP 1989184 A2	12-11-2008
			US 2007203191 A1	30-08-2007
			UY 30140 A1	28-09-2007
WO 2008027073	A	06-03-2008	AR 059439 A1	09-04-2008
			US 2008058390 A1	06-03-2008