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(71) Applicant (for all designated States except US): **BASF SE** [DE/DE]; 67056 Ludwigshafen (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WILHELM, Ronald** [DE/DE]; Platanenweg 11, 65719 Hofheim (DE). **PRADE, Alexander, Guttenkunst** [BR/BR]; Rua Tomé de Sousa 181, apto 52, CEP-09851-550 Sao Bernardo do Campo, SP (BR). **MERK, Michael** [DE/IT]; Via Monte Grappa 9a, I-20020 Arese (IT). **GLADWIN, Robert John** [GB/GB]; 6 Cheltenham Close, SK10 2WD Macclesfield (GB). **BRAHM, Lutz** [DE/DE]; Am Hang 16, 67551 Worms (DE). **TAVARES-RODRIGUES, Marco-Antonio** [BR/BR]; Lino de Almeida Pires, 282 apto 51,

CEP-04317-180 Jabaquara, SP (BR). **VOESTE, Dirk** [DE/DE]; Berliner Platz 11, 67117 Limburgerhof (DE).

(74) Common Representative: **BASF SE**; 67056 Ludwigshafen (DE).

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(54) Title: PLANT HEALTH COMPOSITION

(57) Abstract: The present invention relates to a method for improving the plant health of at least one plant variety, which method comprises treating the plant and/or the locus where the plant is growing or is intended to grow with an amide compound of the formula (I) (compound I). The present invention also relates to a method for improving the plant health of at least one plant variety, which method comprises treating the plant and/or the locus where the plant is growing or is intended to grow with a mixture comprising an amide compound having the formula (I) (compound I) and at least one compound selected from the group consisting of a further fungicide II (compound II), a further fungicide III (compound IIb), an insecticide (compound III) and a herbicide (compound IV).



INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. A01N43/56	A01P3/00	A01P7/04	A01N35/04	A01N37/20
A01N37/24	A01N37/36	A01N37/38	A01N37/46	A01N37/50
A01N37/52	A01N41/06	A01N43/30	A01N43/32	A01N43/36

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

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X	WO 2005/123690 A (BASF AG [DE]; GEWEHR MARKUS [DE]; MUELLER BERND [DE]; GROTE THOMAS [DE]) 29 December 2005 (2005-12-29) claims 1,4,6	1,3,12, 14,15
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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 document 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

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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

Marie, Gérald

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2009/051241

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X	EP 0 737 682 A (MITSUI TOATSU CHEMICALS [JP] MITSUI CHEMICALS INC [JP]) 16 October 1996 (1996-10-16) cited in the application page 19, line 53 - page 20, line 13 claims 1,3-5,14-17 table 5; compounds 1.1, 1.13-1.15, 1.125, 1.127-1.129, 1.141, 1.146 table 5; compounds 1.147, 1.151 pages 50-52; table 9 -----	1,3,12, 14,15
X	WO 03/070705 A (BAYER CROPSCIENCE AG [DE]; DUNKEL RALF [DE]; RIECK HEIKO [FR]; ELBE HA) 28 August 2003 (2003-08-28) cited in the application claims 1,4,5 compounds 1, 3-7, 9-12 page 22, paragraph 4 page 23, lines 9-20 page 25, line 1 page 32, paragraph 2 tables A-D -----	1,3,12, 14,15
X	WO 03/010149 A (BAYER AG [DE]; ELBE HANS-LUDWIG [DE]; RIECK HEIKO [DE]; DUNKEL RALF [D]) 6 February 2003 (2003-02-06) cited in the application compounds I-21,I-44 page 32, paragraph 1 page 32, line 27 - page 33, line 2 page 33, paragraph 2 page 34, line 22 page 43, last paragraph page 75; table C -----	1,3,12, 14,15
X	WO 2004/067515 A (BAYER CROPSCIENCE AG [DE]; DUNKEL RALF [DE]; ELBE HANS-LUDWIG [DE]; DA) 12 August 2004 (2004-08-12) cited in the application page 35; compound 2 claims 1-5 page 24, paragraph 3 page 25, paragraph 2 page 25, lines 7-9 page 32, lines 19-22 tables A-D -----	1,3,12, 14,15
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INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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X	WO 03/074491 A (SYNGENTA PARTICIPATIONS AG [CH]; EHRENFREUND JOSEF [CH]; TOBLER HANS [CH]) 12 September 2003 (2003-09-12) cited in the application compounds 2.5-2.7, 2.10, 2.12, 2.33-2.35 page 27, paragraph 1 page 23, lines 12-24 examples B-1-B-9 claim 10	1, 3, 12, 14, 15
X	WO 2006/092213 A (BAYER CROPSOURCE AG [DE]; DUNKEL RALF [FR]; ELBE HANS-LUDWIG [DE]; GR) 8 September 2006 (2006-09-08) claim 2 page 13, paragraphs 4, 5 page 22, paragraph 1 examples A-D	1, 3, 12, 14, 15
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X	WO 2005/123689 A (BASF AG [DE]; GEWEHR MARKUS [DE]; MUELLER BERND [DE]; GROTE THOMAS [DE]) 29 December 2005 (2005-12-29) claims 4, 6 page 16, last paragraph - page 17, paragraph 3 pages 22-24; examples 1, 2 pages 25-26; examples 1, 2	1, 3, 12, 14, 15

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International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	WO 2005/122770 A (BAYER CROPSCIENCE AG [DE]; KNEEN GEOFF [DE]; SUTY-HEINZE ANNE [DE]; DA) 29 December 2005 (2005-12-29) claims 1-12 page 21, paragraph 1-3 tables A,B,C,D	1,3,12, 14,15
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X	WO 2007/104669 A (BASF AG [DE]; KOEHLE HARALD [DE]; BARDINELLI TED R [US]; TAVARES-RODRI) 20 September 2007 (2007-09-20) claims 1,13,20,21 page 17, paragraph 1-4	1,3,12, 14,15
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INTERNATIONAL SEARCH REPORT

International application No

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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.
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X	WO 2006/036827 A (DU PONT [US]; FOOR STEPHEN RAY [US]) 6 April 2006 (2006-04-06) claims 1-10 page 13, lines 30-34 page 15, lines 5-21	1,3,12, 14,15
X	WO 2007/071656 A (BASF AG [DE]; DIETZ JOCHEN [DE]; STRATHMANN SIEGFRIED [DE]; GROTE THOM) 28 June 2007 (2007-06-28) claims 1,10-12,16,21,22 page 11, paragraph 4 - page 12, paragraph 3 examples 1-4	1,3,12, 14,15
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2009/051241

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

15(completely); 1-3, 12, 14(partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 15(completely); 1-3, 12, 14(partially)

A method according to 1-3, 12 and 14 (in part), wherein the amide compound of formula (I) is used as active ingredient; the use according to claim 15 (fully).

2. claims: 7, 8(completely); 1-6, 10-14(partially)

A method according to claims 1-6 and 10-14 (in part) and claims 7-8 (fully), wherein the active composition comprises a (i) strobilurin fungicide acting synergistically with the amide compound of formula (I).

3. claims: 1-5, 10-14, 16-19(all partially)

A method according to claims 1-5 and 10-14 (in part), mixtures according to claims 16-17 (in part), a method according to claim 18 (in part), a seed according to claim 19 (in part), wherein the active composition comprises (ii) a carboxylic amide fungicide acting synergistically with the amide compound of formula (I).

4. claims: 1-6, 10-14, 16-19(all partially)

A method according to claims 1-6 and 10-14 (in part), mixtures according to claims 16-17 (in part), a method according to claim 18 (in part), a seed according to claim 19 (in part), wherein the active composition comprises (iii) anazole fungicide acting synergistically with the amide compound of formula (I).

5. claims: 1-5, 10-14, 16-19(all partially)

A method according to claims 1-5 and 10-14 (in part), mixtures according to claims 16-17 (in part), a method according to claim 18 (in part), a seed according to claim 19 (in part), wherein the active composition comprises (iv) a heterocyclic fungicide acting synergistically with the amide compound of formula (I).

6. claims: 1-5, 10-14, 16-19(all partially)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

A method according to claims 1-5 and 10-14 (in part), mixtures according to claims 16-17 (in part), a method according to claim 18 (in part), a seed according to claim 19 (in part), wherein the active composition comprises (v) a carbamate or dithiocarbamate fungicide acting synergistically with the amide compound of formula (I).

7. claims: 1-4, 10-14, 16-19(all partially)

A method according to claims 1-4 and 10-14 (in part), mixtures according to claims 16-17 (in part), a method according to claim 18 (in part), a seed according to claim 19 (in part), wherein the active composition comprises (vi) an organo-chloro fungicide acting synergistically with the amide compound of formula (I).

8. claims: 1-4, 10-14, 16-19(all partially)

A method according to claims 1-4 and 10-14 (in part), mixtures according to claims 16-17 (in part), a method according to claim 18 (in part), a seed according to claim 19 (in part), wherein the active composition comprises (vii) an inorganic fungicide acting synergistically with the amide compound of formula (I).

9. claims: 1-5, 10-14, 16-19(all partially)

A method according to claims 1-5 and 10-14 (in part), mixtures according to claims 16-17 (in part), a method according to claim 18 (in part), a seed according to claim 19 (in part), wherein the active composition comprises (viii) another fungicidal compound acting synergistically with the amide compound of formula (I).

10. claims: 9(completely); 1-3, 10-14(partially)

A method according to claims 1-3, 10-14 (in part) and 9 (fully), wherein the active composition comprises a phenylpyrazole insecticide of claim 9.

11. claims: 1-3, 11-14, 16-19(all partially)

A method according to claims 1-3, 11-14 (in part), mixtures according to claims 16-17 (in part), a method according to claim 18 (in part), a seed according to claim 19 (in part), wherein the active composition comprises an organic phosphorous herbicide of claim 11.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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