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(54) Title: *BACILLUS THURINGIENSIS* HYBRID TOXINS

(57) Abstract: *Bacillus thuringiensis* hybrid toxin fragment comprising structural domains I, II and III in this order starting from the N-terminal, wherein the domains are derived from at least two different Cry protein, domain I is domain I of any *Bacillus thuringiensis* Cry protein or a part of said domain or a peptide substantially similar to said domain, domain II is domain II or Cry 1 Ia or a part of said domain or a peptide substantially similar to said domain, and domain III is domain III of Cry1Ba or a part of said domain or a peptide substantially similar domain.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/32 C12N15/62 C07K14/325 A01H5/00 A01N63/00

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)

IPC 7 C07K A01N C12R

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)

BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 50293 A (NOVARTIS ERFINDUNGEN VERWALTUN ;NOVARTIS AG (CH); DESAI NALINI MAN) 7 October 1999 (1999-10-07) page 4 -page 7 claims; examples ---	10-16
A	WO 95 06730 A (SANDOZ LTD ;SANDOZ AG (DE); SANDOZ AG (AT); BOSCH HENDRIK JAN (NL)) 9 March 1995 (1995-03-09) cited in the application the whole document --- -/--	1-16



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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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	<p>VISSER ET AL: "Domain-function studies of Bacillus thuringiensis crystal proteins: a genetic approach" ENTWISTLE, P.F. (EDS) : "BACILLUS THURINGIENSIS, AN ENVIRONMENTAL BIOPESTICIDE: THEORY AND PRACTICE", 1993, pages 71-88, XP002086356 GB,CHICHESTER, WILEY & SONS page 80 -page 84</p> <p style="text-align: center;">---</p>	1-18
A	<p>ELY S: "THE ENGINEERING OF PLANTS TO EXPRESS BACILLUS THURINGIENSIS DELTA-ENDOTOXINS" ENTWISTLE, P.F. (EDS) : "BACILLUS THURINGIENSIS, AN ENVIRONMENTAL BIOPESTICIDE: THEORY AND PRACTICE", 1993, pages 105-124, XP002054693 GB,CHICHESTER, WILEY & SONS page 115 -page 120</p> <p style="text-align: center;">---</p>	11-16
A	<p>BRADLEY D ET AL: "The Insecticidal CryIB Crystal Protein of Bacillus thuringiensis ssp. thuringiensis Has Dual Specificity to Coleopteran and Lepidopteran Larvae." JOURNAL OF INVERTEBRATE PATHOLOGY, vol. 65, no. 2, 1995, pages 162-173, XP000891272 ISSN: 0022-2011 cited in the application</p> <p style="text-align: center;">---</p>	
A	<p>MAAGD DE R A: "DIFFERENT DOMAINS OF BACILLUS THURINGIENSIS DELTA-ENDOTOXINS CAN BIND TO INSECT MIDGUT MEMBRANE PROTEINS ON LIGAND BLOTS" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol. 62, no. 8, August 1996 (1996-08), pages 2753-2757, XP002061801 ISSN: 0099-2240 cited in the application</p> <p style="text-align: center;">-----</p>	

INTERNATIONAL SEARCH REPORT

information on patent family members

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