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(54) Title: A METHOD FOR OBTAINING A PLANT HAVING ALTERED FLORAL MORPHOLOGY AND A METHOD FOR PROTECTING PLANTS AGAINST PEST INSECTS

(57) Abstract

The present invention provides plants with altered flower morphology, characterized in that said plants have a recombinant polynucleotide integrated into their genome, essentially comprising of an inhibitory gene, which upon proper expression in the floral meristem cells is capable of inhibiting the development and determination of floral primordia into petal and/or stamen primordia. Said plants have a disturbed relation with pest insects which are attracted by the flowers. As a result of that said plants have an increased resistance against those pest insects and the primary but also the secondary damage caused by these insects is significantly reduced.

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INTERNATIONAL SEARCH REPORT

Inter onal Application No
PCT/NL 93/00121

A. CLASSIFICATION OF SUBJECT MATTER
IPC 5 C12N15/82 C12N15/29 C12N5/10 A01H5/00 A01N65/00
C12Q1/68

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 5 C12N A01H A01N C12Q

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
O,X	THE PLANT CELL. vol. 4, no. 8 , August 1992 , ROCKVILLE, MD, USA. pages 867 - 870 CLARKE, A.E., ET AL. 'Forefronts of flowering: meeting report' see page 868, column 2 & WORKSHOP ON MOLECULAR CONTROL OF FLOWER DEVELOPMENT AND PLANT REPRODUCTION , AMSTERDAM, NETHERLANDS, 12-16, APRIL, 1992. --- -/--	1-3,7, 10-12, 16,17

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Date of the actual completion of the international search	Date of mailing of the international search report
29 November 1993	16. 12. 93
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Authorized officer Maddox, A

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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.
O,X	PLANT MOLECULAR BIOLOGY. vol. 19, no. 5 , August 1992 , DORDRECHT, THE NETHERLANDS. pages III - VI LIFSCHITZ, E., ET AL. 'News and views' & WORKSHOP ON MOLECULAR CONTROL OF FLOWER DEVELOPMENT AND PLANT REPRODUCTION, AMSTERDAM, NETHERLANDS, APRIL 12-16, 1992. see page III, column 2 ---	1-3,7, 10-12, 16,17
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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	THE PLANT CELL. vol. 4, no. 8 , August 1992 , ROCKVILLE, MD, USA. pages 983 - 993 ANGENENT, G.C., ET AL. 'Differential expression of two MADS box genes in wild-type and mutant petunia flowers' see page 990, right column	16,17
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E	WO,A,93 21322 (THE ROCKEFELLER UNIVERSITY) 28 October 1993 see the whole document	1-4,7, 10-12

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter ional Application No
PCT/NL 93/00121

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A-9321322	28-10-93	NONE	