



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/EP99/07972 (22) International Filing Date: 20 October 1999 (20.10.99) (30) Priority Data: 9823098.0 22 October 1998 (22.10.98) GB (71) Applicant (for all designated States except AT US): NOVARTIS AG [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH). (71) Applicant (for AT only): NOVARTIS-ERFINDUNGEN [AT/AT]; Verwaltungsgesellschaft m.b.H., Brunner Strasse 59, A-1230 Vienna (AT). (72) Inventors; and (75) Inventors/Applicants (for US only): SCHMIDT, Eduard, Daniel, Leendert [NL/NL]; Callunastraat 25, NL-6813 ET Arnhem (NL). DE VRIES, Sape, Cornelis [NL/NL]; Roghorst 192, NL-6708 KS Wageningen (NL). HECHT, Valérie, France, Gabrielle [FR/NL]; Kees Mulderweg 25, NL-6707 HA Wageningen (NL). (74) Agent: BECKER, Konrad; Novartis AG, Corporate Intellectual Property, Patent &amp; Trademark Department, CH-4002 Basel (CH).</p>	<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> <i>With international search report.</i></p> <p>(88) Date of publication of the international search report: 13 July 2000 (13.07.00)</p>	
<p>(54) Title: APOMIXIS CONFERRED BY EXPRESSION OF SERK INTERACTING PROTEINS</p>		
<p>(57) Abstract</p> <p>The present invention relates to a method for increasing the probability of vegetative reproduction of a new plant generation by transgenic expression of a gene encoding a protein acting in the signal transduction cascade triggered by the Somatic Embryogenesis Receptor Kinase (SERK). Apomictic seeds resulting therefrom, plants and progeny obtained through germination of such seeds, and genes encoding proteins acting in the signal transduction cascade triggered by SERK constitute further subject matters of the invention.</p>		

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INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 99/07972

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 C12N15/82 C07K14/415 C12N9/12 A01H5/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C07K		
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)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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PCT/EP 99/07972

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