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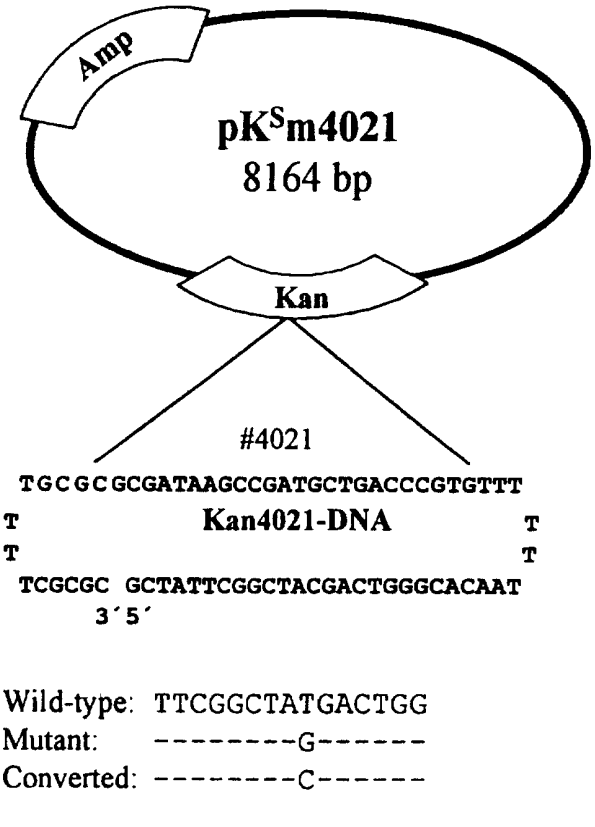
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[Continued on next page]

(54) Title: PLANT GENE TARGETING USING OLIGONUCLEOTIDES



(57) Abstract: Methods and compositions are presented for the generation of targeted alterations in a plant genome using double-stranded homogeneous oligonucleotides containing a single type of nucleotide. These methods can be used to correct mutations, introduce mutations and/or alter gene activity in a plant cell. A cell-free assay system for monitoring genetic alteration using the oligonucleotides of the invention is also presented.

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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG)*

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07H21/00 C12N15/10 C12N15/11 C12N15/82

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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EPO-Internal, BIOSIS, SCISEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 010 907 A (GAMPER HOWARD B ET AL) 4 January 2000 (2000-01-04) * abstract, p.3:66-6:7,8:5-9:50,14:11-41 table 1*	1-6
E	WO 01 73002 A (UNIV DELAWARE ;GAMPER HOWARD B (US); KMIEC ERIC B (US); RICE MICHA) 4 October 2001 (2001-10-04) * p.7:7-22, example 1, table 1, fig. 1, claims *	1-6

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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