

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 December 2007 (21.12.2007)

PCT

(10) International Publication Number
WO 2007/146706 A3

(51) International Patent Classification:

C12N 15/53 (2006.01) A01H 5/00 (2006.01)
C12N 15/82 (2006.01) A01H 5/10 (2006.01)
C12N 9/02 (2006.01)

(21) International Application Number:

PCT/US2007/070514

(22) International Filing Date: 6 June 2007 (06.06.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/811,152 6 June 2006 (06.06.2006) US
11/758,657 5 June 2007 (05.06.2007) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report
— with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

(88) Date of publication of the international search report:
2 May 2008

(48) Date of publication of this corrected version:
26 June 2008

(15) Information about Correction:
see Notice of 26 June 2008

(54) Title: MODIFIED DICAMBA MONOOXYGENASE ENZYME AND METHODS OF ITS USE

(57) Abstract: The invention provides a modified variant of dicamba monooxygenase (DMO). The invention relates to the unexpected finding that cells expressing this DMO exhibit high levels of tolerance to the herbicide dicamba. Compositions comprising DMO-encoding nucleic acids and methods of use are provided.



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