

Title (en)

METHODS AND MATERIALS FOR MAKING AND USING TRANSGENIC DICAMBA-DEGRADING ORGANISMS

Title (de)

ETHODEN UND MATERIALIEN ZUR HERSTELLUNG UND VERWENDUNG TRANSGENER DICAMBA-ABBAUENDER ORGANISMEN

Title (fr)

METHODES ET MATERIELS POUR PRODUIRE ET UTILISER DES ORGANISMES TRANSGENIQUES DEGRADANT DICAMBA

Publication

**EP 1012257 A4 20040818 (EN)**

Application

**EP 98915256 A 19980403**

Priority

- US 9806589 W 19980403
- US 4266697 P 19970404
- US 4294197 P 19970404

Abstract (en)

[origin: WO9845424A1] The invention provides isolated and at least partially-purified dicamba-degrading enzymes, isolated DNA molecules coding for dicamba-degrading enzymes, DNA constructs coding for dicamba-degrading enzymes, transgenic host cells comprising DNA coding for dicamba-degrading enzymes, and transgenic plants and plant parts comprising one or more cells comprising DNA coding for dicamba-degrading enzymes. Expression of the dicamba-degrading enzymes results in the production of dicamba-degrading organisms, including dicamba-tolerant plants. The invention further provides a method of controlling weeds in a field containing the transgenic dicamba-tolerant plants of the invention and a method of decontaminating a material containing dicamba comprising applying an effective amount of a transgenic microorganism or dicamba-degrading enzyme of the invention to the material. Finally, the invention provides a method of selecting transformed plants and plant cells based on dicamba tolerance and a method of selecting or screening transformed host cells, intact organisms and parts of organisms based on the fluorescence of 3,6-dichlorosalicylic acid produced as a result of dicamba degradation.

IPC 1-7

**C12N 15/00**; **C12N 15/09**; **C12N 15/29**; **C12N 15/82**; **A01H 1/00**; **A01H 3/00**; **A01H 4/00**; **A01H 5/00**; **C12N 9/02**; **C07K 14/79**

IPC 8 full level

**A01H 5/00** (2006.01); **C07K 14/79** (2006.01); **C12N 9/00** (2006.01); **C12N 9/02** (2006.01); **C12N 9/10** (2006.01); **C12N 15/09** (2006.01); **C12N 15/29** (2006.01); **C12N 15/82** (2006.01); **C12Q 1/02** (2006.01)

CPC (source: EP KR)

**C12N 9/0069** (2013.01 - EP); **C12N 15/00** (2013.01 - KR); **C12N 15/52** (2013.01 - KR); **C12N 15/8209** (2013.01 - EP); **C12N 15/8259** (2013.01 - EP); **C12N 15/8274** (2013.01 - EP)

Citation (search report)

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- See references of WO 9845424A1

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CN109971773A

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI NL PT

DOCDB simple family (publication)

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DOCDB simple family (application)

**US 9806589 W 19980403**; AU 6948498 A 19980403; CA 2285676 A 19980403; EP 10182774 A 19980403; EP 98915256 A 19980403; JP 2008211702 A 20080820; JP 2010038572 A 20100224; JP 54291598 A 19980403; KR 19997009092 A 19991004; MX 9909086 A 19980403; NO 994795 A 19991001; NZ 33809398 A 19980403; RU 99123057 A 19980403