Title (en)

A METHOD TO INHIBIT ETHYLENE RESPONSES IN PLANTS

Title (de)

VERFAHREN ZUR INHIBIERUNG VON REAKTIONEN AUF ETHYLEN IN PFLANZEN

Title (fr)

PROCEDE D'INHIBITION DE REPONSES DE L'ETHYLENE CHEZ DES VEGETAUX

Publication

EP 1409440 A1 20040421 (EN)

Application

EP 02707944 A 20020225

Priority

- US 0206339 W 20020225
- US 27158801 P 20010226
- US 27159001 P 20010226
- US 27159101 P 20010226

Abstract (en)

[origin: WO02068367A1] The present invention generally relates to methods of inhibiting ethylene responses in plants and plant materials, and particularly relates to methods of inhibiting various ethylene responses including plant maturation and degradation, by exposing plants to cyclopropene derivatives and compositions thereof wherein: 1) at least one substituent on the cyclopropene ring contains a carbocyclic or heterocyclic ring, or 2) a substituent contains silicon, sulfur, phosphorous, or boron, or 3) least one substituent contains from one to four non-hydrogen atoms and at least one substituent contains more than four non-hydrogen atoms.

IPC 1-7

C07C 13/00; A01N 27/00; A01N 29/00; A01N 31/00; A01N 33/00; A01N 43/00; A01N 55/00; A01N 57/00; C07C 13/04

IPC 8 full level

C07D 249/08 (2006.01); **A01N 27/00** (2006.01); **A01N 29/04** (2006.01); **A01N 29/10** (2006.01); **A01N 31/14** (2006.01); **A01N 33/04** (2006.01); **A01N 37/06** (2006.01); **A01N 41/04** (2006.01); **A01N 43/08** (2006.01); **A01N 43/10** (2006.01); **A01N 43/12** (2006.01); **A01N 43/32** (2006.01); **A01N 43/36** (2006.01); **A01N 43/40** (2006.01); **A01N 43/54** (2006.01); **A01N 43/56** (2006.01); **A01N 43/58** (2006.01); **A01N 43/60** (2006.01); **A01N 43/653** (2006.01); **A01N 43/828** (2006.01); **A01N 43/84** (2006.01); **A01N 55/00** (2006.01); **A01N 55/08** (2006.01); **A01N 57/12** (2006.01); **C07C 13/04** (2006.01); **C07C 13/28** (2006.01); **C07C 17/00** (2006.01); **C07C 17/23** (2006.01); **C07C 17/26** (2006.01); **C07C 17/272** (2006.01); **C07C 23/04** (2006.01); **C07C 23/18** (2006.01); **C07C 25/18** (2006.01); **C07C 25/24** (2006.01); **C07C 43/215** (2006.01); **C07C 43/225** (2006.01); **C07C 43/23** (2006.01); **C07C 45/00** (2006.01); **C07C 51/41** (2006.01); **C07C 69/145** (2006.01); **C07C 69/65** (2006.01); **C07C 69/76** (2006.01); **C07C 69/767** (2006.01); **C07C 211/55** (2006.01); **C07C 309/66** (2006.01); **C07C 309/73** (2006.01); **C07C 321/20** (2006.01); **C07C 321/28** (2006.01); **C07C 323/09** (2006.01); **C07D 207/325** (2006.01); **C07D 207/416** (2006.01); **C07D 213/70** (2006.01); **C07D 213/80** (2006.01); **C07D 231/12** (2006.01); **C07D 231/16** (2006.01); **C07D 233/54** (2006.01); **C07D 233/58** (2006.01); **C07D 237/04** (2006.01); **C07D 239/26** (2006.01); **C07D 241/24** (2006.01); **C07D 249/12** (2006.01); **C07D 275/02** (2006.01); **C07D 277/06** (2006.01); **C07D 285/06** (2006.01); **C07D 295/18** (2006.01); **C07D 295/185** (2006.01); **C07D 295/30** (2006.01); **C07D 307/68** (2006.01); **C07D 307/85** (2006.01); **C07D 317/12** (2006.01); **C07D 319/06** (2006.01); **C07D 333/08** (2006.01); **C07D 521/00** (2006.01); **C07F 5/02** (2006.01); **C07F 5/04** (2006.01); **C07F 7/08** (2006.01); **C07F 7/18** (2006.01); **C07F 9/173** (2006.01); C07D 207/32 (2006.01); C07D 207/40 (2006.01)

CPC (source: EP KR)

A01N 27/00 (2013.01 - EP); **A01N 29/04** (2013.01 - EP); **A01N 57/00** (2013.01 - KR); **C07C 13/04** (2013.01 - EP); **C07C 13/28** (2013.01 - EP); **C07C 17/00** (2013.01 - EP); **C07C 17/23** (2013.01 - EP); **C07C 17/2632** (2013.01 - EP); **C07C 17/272** (2013.01 - EP); **C07C 23/04** (2013.01 - EP); **C07C 25/24** (2013.01 - EP); **C07C 43/215** (2013.01 - EP); **C07C 43/225** (2013.01 - EP); **C07C 43/23** (2013.01 - EP); **C07C 45/00** (2013.01 - EP); **C07C 51/416** (2013.01 - EP); **C07C 69/65** (2013.01 - EP); **C07C 69/76** (2013.01 - EP); **C07C 309/66** (2013.01 - EP); **C07C 309/73** (2013.01 - EP); **C07C 321/20** (2013.01 - EP); **C07C 321/28** (2013.01 - EP); **C07C 323/09** (2013.01 - EP); **C07D 207/325** (2013.01 - EP); **C07D 207/416** (2013.01 - EP); **C07D 213/70** (2013.01 - EP); **C07D 213/80** (2013.01 - EP); **C07D 231/12** (2013.01 - EP); **C07D 231/16** (2013.01 - EP); **C07D 233/56** (2013.01 - EP); **C07D 237/04** (2013.01 - EP); **C07D 239/26** (2013.01 - EP); **C07D 241/24** (2013.01 - EP); **C07D 249/08** (2013.01 - EP); **C07D 249/12** (2013.01 - EP); **C07D 277/06** (2013.01 - EP); **C07D 285/06** (2013.01 - EP); **C07D 295/185** (2013.01 - EP); **C07D 295/30** (2013.01 - EP); **C07D 307/68** (2013.01 - EP); **C07D 307/85** (2013.01 - EP); **C07D 317/12** (2013.01 - EP); **C07D 333/08** (2013.01 - EP); **C07F 5/025** (2013.01 - EP); C07C 2601/02 (2017.04 - EP)

C-Set (source: EP)

1. **C07C 17/00** + **C07C 23/04**
2. **C07C 17/00** + **C07C 25/24**
3. **C07C 17/23** + **C07C 23/04**
4. **C07C 17/2632** + **C07C 21/14**
5. **C07C 17/2632** + **C07C 25/24**
6. **C07C 45/00** + **C07C 49/213**
7. **C07C 51/416** + **C07C 63/38**

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02068367 A1 20020906; CN 101979394 A 20110223; CN 101979394 B 20130403; CN 1463263 A 20031224; EP 1409440 A1 20040421; EP 1409440 A4 20050914; JP 2004532191 A 20041021; JP 4785169 B2 20111005; KR 100921196 B1 20091013; KR 20030076561 A 20030926

DOCDB simple family (application)

US 0206339 W 20020225; CN 02801969 A 20020225; CN 201010128181 A 20020225; EP 02707944 A 20020225; JP 2002567883 A 20020225; KR 20037002434 A 20020225