

Title (en)
USE OF AROMATIC HYDROXY COMPOUNDS AS SAFENERS

Title (de)
VERWENDUNG VON HYDROXYAROMATEN ALS SAFENER

Title (fr)
UTILISATION DE COMPOS S AROMATIQUES HYDROXY COMME PHYTOPROTECTEURS

Publication
EP 1610611 A1 20060104 (DE)

Application
EP 04721478 A 20040318

Priority
• EP 2004002797 W 20040318
• DE 10313480 A 20030326

Abstract (en)
[origin: WO2004084631A1] Disclosed are compounds of formula (I) or the salts thereof, wherein R<1> represents carboxy or a derivative of the carboxyl group, preferably a radical of formula -CN, -C(=X)-Y-R, or -C(=X)-Het wherein X represents a divalent radical of formula O, S, or NR<a> or N-NR<a>R, R<a> and R being defined as indicated in claim 1, while Y represents a group of formula O, S, NR<c>, or NR<c>-NR<d>R<e>, R<c>, R<d>, and R<e> being defined as indicated in claim 1, R<2>, R<3>, R<4>, R<5>, and R<6>, Z, Z', Z'' are defined as indicated in claim 1, m represents an integer 0 or 1, n represents an integer 0 or 1, and o represents an integer 0 or 1, the sum m + n + o being an integer 1, 2, or 3. In case of the alternatives (b) defined above, at least one of the radicals R<3>, R<4>, and R<5> is selected among radicals of the group comprising hydrogen and acyl. The inventive compounds are suitable as safeners or resistance inducers for cultivated plants or useful plants, preferably as safeners against phytotoxic effects of agrochemicals, such as pesticides, on said plants.

IPC 1-7
A01N 25/32; **A01N 37/40**; **A01N 37/44**; **C07C 229/60**; **C07C 229/64**; **C07C 235/46**; **C07C 237/36**; **C07C 237/44**; **C07C 243/38**; **C07C 255/53**; **C07C 255/54**; **C07C 255/55**; **C07C 255/58**; **C07C 255/59**; **C07C 65/03**

IPC 8 full level
A01N 25/32 (2006.01); **A01N 37/40** (2006.01); **A01N 37/44** (2006.01); **C07C 65/03** (2006.01); **C07C 65/21** (2006.01); **C07C 69/017** (2006.01); **C07C 69/88** (2006.01); **C07C 69/90** (2006.01); **C07C 69/92** (2006.01)

CPC (source: EP KR US)
A01N 25/32 (2013.01 - EP KR US); **A01N 37/40** (2013.01 - EP KR US); **A01N 37/44** (2013.01 - EP KR US); **C07C 65/03** (2013.01 - EP US); **C07C 65/21** (2013.01 - EP US); **C07C 69/017** (2013.01 - EP US); **C07C 69/88** (2013.01 - EP US); **C07C 69/90** (2013.01 - EP US); **C07C 69/92** (2013.01 - EP US); **C07C 235/46** (2013.01 - EP US); **C07C 243/38** (2013.01 - EP US); **C07C 255/53** (2013.01 - EP US); **C07C 255/55** (2013.01 - EP US)

Citation (search report)
See references of WO 2004084631A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004084631 A1 20041007; AR 043770 A1 20050810; AU 2004224813 A1 20041007; AU 2004224813 B2 20101125; BR PI0408943 A 20060404; CA 2520228 A1 20041007; CN 1764374 A 20060426; CN 1764374 B 20100922; EA 014910 B1 20110228; EA 200501466 A1 20060428; EP 1610611 A1 20060104; HR P20050844 A2 20061130; JP 2006521311 A 20060921; KR 20060002857 A 20060109; MX PA05010296 A 20051117; RS 20050691 A 20080404; TW 200505334 A 20050216; UA 90844 C2 20100610; US 2004224844 A1 20041111; ZA 200506657 B 20070131

DOCDB simple family (application)
EP 2004002797 W 20040318; AR P040100979 A 20040324; AU 2004224813 A 20040318; BR PI0408943 A 20040318; CA 2520228 A 20040318; CN 200480007969 A 20040318; EA 200501466 A 20040318; EP 04721478 A 20040318; HR P20050844 A 20050923; JP 2006504717 A 20040318; KR 20057017888 A 20050923; MX PA05010296 A 20040318; TW 93108002 A 20040324; UA A200510100 A 20040318; US 81021104 A 20040326; YU P20050691 A 20040318; ZA 200506657 A 20050819