

Title (en)
PIPERAZINE COMPOUNDS WITH A HERBICIDAL ACTION

Title (de)
PIPERAZINVERBINDUNGEN MIT HERBIZIDER WIRKUNG

Title (fr)
COMPOSÉS PIPÉRAZINIQUES À ACTION HERBICIDE

Publication
EP 2054395 A2 20090506 (DE)

Application
EP 08760877 A 20080611

Priority
• EP 2008057329 W 20080611
• EP 07110124 A 20070612
• EP 08760877 A 20080611

Abstract (en)
[origin: WO2008152073A2] The invention relates to piperazine compounds of the following defined general formula (I) and to their use as herbicides. The invention also relates to crop protection agents and to a method for combating undesired plant growth. In formula (I), the variables are defined as follows: R1 is selected from halogen, cyano, nitro, Z-C(=O)-R11, phenyl and a 5- or 6-membered heterocyclic group that has 1, 2, 3 or 4 heteroatoms, selected from O, N and S as ring atoms, wherein phenyl and the heterocyclic group are unsubstituted or have 1, 2, 3 or 4 substituents R1a; Z stands for a covalent bond or a CH2 group; R11 represents hydrogen, C1-C6 alkyl, C3-C6 cycloalkyl, C2-C6 alkenyl, C5-C6 cycloalkenyl, C2-C6 alkynyl and similar; R2 represents hydrogen, halogen, nitro, cyano, C1-C4 alkyl, C1-C4 haloalkyl, C2- C4 alkenyl, C1-C4 alkoxy, C1-C4 haloalkoxy, benzyl or a group S(O) nR21, wherein R21 stands for C1-C4 alkyl or C1-C4 haloalkyl and n stands for 0, 1 or 2; R3 represents hydrogen or halogen; R4 represents C1-C4 alkyl, C3- C4 alkenyl or C3-C4 alkynyl; R5 represents hydrogen, C1-C4 alkyl, C3-C4 alkenyl, C3-C4 alkynyl or a group (=O)R51, wherein R51 stands for hydrogen, C1-C4 alkyl, C1-C4 haloalkyl, C1-C4 alkoxy or C1-C4 haloalkoxy; R6 stands for C1-C4 alkyl, C1-C4 hydroxy alkyl or C1-C4 haloalkyl; R7, R8 stand, independently of one another, for hydrogen, OH, C1-C4 alkoxy, C1-C4 haloalkoxy, C1-C4 alkyl or C1-C4 haloalkyl; R9, R10 are selected, independently of one another, from hydrogen, halogen, CN, NO2, C1-C4 alkyl, C1-C4 haloalkyl, C2-C4

IPC 8 full level
C07D 241/08 (2006.01); **A61K 31/495** (2006.01); **C07D 403/10** (2006.01); **C07D 407/10** (2006.01); **C07D 409/10** (2006.01); **C07D 413/10** (2006.01); **C07D 417/10** (2006.01)

CPC (source: EP US)
C07D 241/08 (2013.01 - EP US); **C07D 403/10** (2013.01 - EP US); **C07D 407/10** (2013.01 - EP US); **C07D 409/10** (2013.01 - EP US); **C07D 413/10** (2013.01 - EP US); **C07D 417/10** (2013.01 - EP US)

Citation (search report)
See references of WO 2008152073A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2008152073 A2 20081218; WO 2008152073 A3 20090212; AR 068074 A1 20091104; AU 2008263902 A1 20081218; BR PI0812955 A2 20141209; CA 2689209 A1 20081218; CL 2008001748 A1 20091211; CN 101702907 A 20100505; EA 200901622 A1 20100630; EP 2054395 A2 20090506; IL 202075 A0 20100616; JP 2010529169 A 20100826; KR 20100034745 A 20100401; PE 20090417 A1 20090508; TW 200906806 A 20090216; US 2010152047 A1 20100617; UY 31148 A1 20090105

DOCDB simple family (application)
EP 2008057329 W 20080611; AR P080102493 A 20080611; AU 2008263902 A 20080611; BR PI0812955 A 20080611; CA 2689209 A 20080611; CL 2008001748 A 20080612; CN 200880019911 A 20080611; EA 200901622 A 20080611; EP 08760877 A 20080611; IL 20207509 A 20091112; JP 2010511630 A 20080611; KR 20107000615 A 20080611; PE 2008000993 A 20080611; TW 97121803 A 20080611; US 66378408 A 20080611; UY 31148 A 20080612