Title (en)

HERBICIDE COMBINATION

Title (de)

HERBIZID-KOMBINATION

Title (fr)

COMBINAISON HERBICIDE

Publication

EP 2124567 A2 20091202 (DE)

Application

EP 08707392 A 20080130

Priority

- EP 2008000691 W 20080130
- EP 07003390 A 20070219
- EP 08707392 A 20080130

Abstract (en)

[origin: EP1958509A1] New herbicide combinations contain (A) one or more of N-(pyrimidinyl or s-triazinyl)-N'-(3-(5,6-dihydro-1,4,2-dioxazin-3-yl)-pyridin-2-ylsulfonyl)-ureas (I) and their salts and (B) one or more of 2,4-diamino-s-triazines, in which an amino group is N-substituted by a (hetero)aryl-(hetero)alkyl group. New herbicide combinations contain (A) one or more of sulfonyl-ureas of formula (I) and their salts and (B) one or more of 2,4-diamino-s-triazines, in which an amino group is N-substituted by a (hetero)aryl-(hetero)alkyl group. A : N or CR 11>; R 11>H, alkyl, halo or haloalkyl; R 1>H or (all optionally substituted (os)) alkyl, alkoxy, alkoxyalkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, aralkyl or aryl; R 2>, R 3>H, halo or (all os by halo) alkyl, alkoxy, alkylthio, alkylamino or dialkylamino; R 4>-R 8>H, halo, CN, SCN or (all os by halo) alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, alkylcarbonyl, alkoxycarbonyl or alkylaminocarbonyl; alkyl or alkylene moieties have 1-6C (except in R 4>-R 8>, where they have 1-3C), alkenyl or alkynyl moieties 2-6C, cycloalkyl moieties 3-6C and aryl moieties 6-10C. An independent claim is included for a method for non-selective control of unwanted plant growth, involving application of the herbicides (A) and (B), together or separately, preferably to the area in which the plants grow. [Image] ACTIVITY : Herbicide. Combinations of (A) and (B) are stated to show strongly synergistic herbicidal activity against a broad spectrum of grassy and broad-leaf plants (e.g. Sinapis alba, Echinochloa crus-galli, Setaria viridis, Amaranthus retroflexus, Abutilon threophrasti and Panicum millaceum) on pre- or post-emergence application at rates of 100 g/ha or less, but no quantitative results for individual active agent combinations are given. MECHANISM OF ACTION : Acetolactate synthase inhibitor; Protein synthesis inhibitor; Cellulose biosynthesis inhibitor; Cell wall formation suppressor.

IPC 8 full level

A01N 47/36 (2006.01); **A01N 43/68** (2006.01); **A01N 43/70** (2006.01); **A01P 13/00** (2006.01)

CPC (source: EP KR US)

A01N 43/68 (2013.01 - KR); **A01N 43/70** (2013.01 - KR); **A01N 47/36** (2013.01 - EP KR US)

C-Set (source: EP US)

1. **A01N 47/36** + **A01N 43/68** + **A01N 43/70**
2. **A01N 47/36** + **A01N 2300/00**

Citation (search report)

See references of WO 2008101588A2

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

DOCDB simple family (publication)

EP 1958509 A1 20080820; AP 2009004955 A0 20090831; AR 065371 A1 20090603; AU 2008217298 A1 20080828; BR PI0807761 A2 20140617; CA 2678651 A1 20080828; CL 2008000505 A1 20081003; CN 101616590 A 20091230; CO 6210775 A2 20101020; CR 10979 A 20100316; EA 200901015 A1 20100226; EC SP099570 A 20090929; EP 2124567 A2 20091202; IL 200398 A0 20100429; JP 2010519212 A 20100603; KR 20090110861 A 20091022; MA 31193 B1 20100201; MX 2009008851 A 20090828; PE 20081787 A1 20081218; TN 2009000343 A1 20101231; TW 200906305 A 20090216; US 2010048400 A1 20100225; UY 30930 A1 20080930; WO 2008101588 A2 20080828; WO 2008101588 A3 20090625; ZA 200905225 B 20100526

DOCDB simple family (application)

EP 07003390 A 20070219; AP 2009004955 A 20080130; AR P080100657 A 20080215; AU 2008217298 A 20080130; BR PI0807761 A 20080130; CA 2678651 A 20080130; CL 2008000505 A 20080219; CN 200880005456 A 20080130; CO 09086996 A 20090819; CR 10979 A 20090818; EA 200901015 A 20080130; EC SP099570 A 20090811; EP 08707392 A 20080130; EP 2008000691 W 20080130; IL 20039809 A 20090813; JP 2009549789 A 20080130; KR 20097017981 A 20080130; MA 32178 A 20090819; MX 2009008851 A 20080130; PE 2008000344 A 20080218; TN 2009000343 A 20090812; TW 97105434 A 20080215; US 52772908 A 20080130; UY 30930 A 20080219; ZA 200905225 A 20090727