

Title (en)  
HERBICIDALLY ACTIVE PHENYLSULPHONYL-UREA

Title (de)  
PHENYLSULFONYLHARNSTOFFE MIT HERBIZIDER WIRKUNG

Title (fr)  
PHENYLSULFONYLUREE A EFFET HERBICIDE

Publication  
**EP 1877386 A1 20080116 (DE)**

Application  
**EP 06724419 A 20060419**

Priority  
• EP 2006003564 W 20060419  
• EP 05009272 A 20050428  
• EP 06724419 A 20060419

Abstract (en)  
[origin: EP1717232A1] Phenylsulfonylurea compounds (I) and/or their salts are new. Phenylsulfonylurea compounds of formula (I) and/or their salts are new. R : hydrocarbon, hydrocarboxy (optionally substituted by 1-30C, heterocycle or heterocycloxy), OC(O)R 3>, S(O) nR 3>, OS(O) nR 3>, F, Br, I, OH, CN, NO 2, NH 2, SF 5, NR 4>R 5> or Si(R 6>) 3; n : 0-2; R 1>halo, OH, SH, carbon free nitrogen or 1-30C atoms; i : 0-3; R 2>H or hydrocarbon (optionally substituted by 1-20C); R 3>hydrocarbon, hydrocarboxy (optionally substituted by 1-30C, heterocycle or heterocycloxy), H, CN or NR 4>R 5>; either R 4>R 0>-Q 0>; and R 5>H, acyl, hydrocarbon or heterocycle (optionally substituted by 1-30C); or R 4>R 5>nitrogen heterocyclic ring; Q 0>direct bond or a divalent group of formula (O) or N(R 1> 0>); either R 0>H, acyl, hydrocarbon or heterocycle (all optionally substituted by 1-30C); and R 1> 0>H, acyl or hydrocarbon (optionally substituted by 1-30C); or R 0>R 1> 0>nitrogen heterocyclic ring; R 6>hydrocarbon (optionally substituted by 1-30C); W 1>O or S; X, Y 1>H, halo, (1-6C)-alkyl, (1-6C)-alkoxy or (1-6C)alkylthio, where each of the three groups are optionally substituted by one or more halo, (1-6C)-alkyl, (1-6C)-alkoxy, (1-6C)-alkylthio, mono- or di(1-6C)-alkylamino, (2-6C)-alkynyl, (2-6C)-alkenyloxy or (3-6C)-alkynyloxy; and V 1>, Z : CH or N. Independent claims are included for: (1) a method for the preparation of (I); (2) an agrochemical agent comprising (I) and plant protective auxiliary material and additives; (3) a method to combat weeds or to regulate growth of the plants comprises applying (I) on the plants, seeds or soil; and (4) use of a sulfonyl compound of formula (IIa) for the preparation of (I). Z 1>NH 2, NH-tert-butyl, NH-C(O)OR-b, NH-C(S)OR-b, NCO, NCS or halo; and R-b : optionally substituted 1-20C-hydrocarbon. [Image] [Image] ACTIVITY : Herbicide; Plant Growth Regulant. MECHANISM OF ACTION : Plant growth regulator.

IPC 8 full level  
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