Title (en)

BICYCLIC AMINE DERIVATIVES

Title (de)

BICYCLISHE AMINDERIVATE

Title (fr)

DERIVES D'AMINE BICYCLIQUE

Publication

EP 0971918 A1 20000119 (EN)

Application

EP 98910848 A 19980304

Priority

- GB 9800693 W 19980304
- GB 9706222 A 19970326

Abstract (en)

[origin: WO9846600A1] The invention concerns a method of combating and controlling insect, acarine or nematode pests which comprises treating said pests, or the locus of said pests, with an effective amount of a compound of formula (I), wherein A is WXC-CYZ or XC=CY; R is hydrogen, formyl or cyano or a group selected from alkyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, aralkenyl, alkynyl, alkoxycarbonyl, alkanesulfonyl, arenesulfonyl, alkenyloxycarbonyl, aralkyloxycarbonyl, aryloxycarbonyl, heterocyclylalkyl, carbamyl, dithiocarboxyl or X'R<3> (where X' represents oxygen or a group NR<4>), provided that when R is alkenyl, aralkenyl or alkynyl said group does not have an unsaturated carbon atom bonding directly to the ring nitrogen of formula (I); Ar is optionally substituted phenyl or an optionally substituted 5- or 6-membered heterocyclic ring system containing from 1 to 3 heteroatoms individually selected from nitrogen, oxygen and sulfur atoms, and at least one unsaturation (double bond) between adjacent atoms in the ring, said heterocyclic ring being optionally fused to a benzene ring, wherein the substituents, if present, are selected from halogen atoms, cyano, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkenyl, alkylthio and alkyl amino groups, any of which groups contain up to six carbon atoms; W, X, Y and Z are, independently, hydrogen, hydroxy, acyloxy, alkoxy, alkylsilyloxy, cyano or halogen; alkyl moieties of R, R<3> and R<4> comprise from 1 to 15 carbon atoms, and are optionally substituted with one or more substituents selected from halogen, cyano, carboxyl, carboxylic acyl, carbamyl, alkoxycarbonyl, alkoxy, alkylenedioxy, hydroxy, nitro, amino, acylamino, imidate and phosphonato groups; aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, aralkenyl, alkynyl, alkoxycarbonyl, alkanesulfonyl, arenesulfonyl, alkanyloxycarbonyl, aralkyloxycarbonyl, aryloxycarbonyl, heterocyclylalkyl, carbamyl, dithiocarboxyl moieties of R, R<3> and R<4> comprise from 1 to 15 carbon atoms, and are optionally substituted with one or more substituents selected from halogen, cyano, carboxyl, carboxylic acyl, carbamyl, alkoxycarbonyl, alkoxy, alkylenedioxy, hydroxy, nitro, haloalkyl, alkyl, amino, acylamino, imidate and phosphonato groups; or an acid addition salt, quaternary ammonium salt or <u>N</u>-oxide derived therefrom; or an effective amount of a composition comprising a compound of formula (I), as hereinbefore defined, and an insecticidally, acaricidally or nematocidally acceptable carrier or diluent therefor. In other aspects the invention concerns compositions comprising a compound of formula (I), certain compounds of formula (I) and processes for making said compounds.

IPC 1-7

C07D 451/00; A01N 43/34; A61K 31/46; C07D 451/02

IPC 8 full level

A01N 43/90 (2006.01); **C07D 451/00** (2006.01); **C07D 451/02** (2006.01)

CPC (source: EP KR)

C07D 451/00 (2013.01 - EP); **C07D 451/02** (2013.01 - EP KR)

Citation (search report)

See references of WO 9846600A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9846600 A1 19981022; AR 012164 A1 20000927; AU 6507798 A 19981111; EP 0971918 A1 20000119; GB 9706222 D0 19970514; JP 2001521514 A 20011106; KR 20010005634 A 20010115; ZA 982204 B 19980928

DOCDB simple family (application)

GB 9800693 W 19980304; AR P980101352 A 19980325; AU 6507798 A 19980304; EP 98910848 A 19980304; GB 9706222 A 19970326; JP 54357598 A 19980304; KR 19997008701 A 19990922; ZA 982204 A 19980316