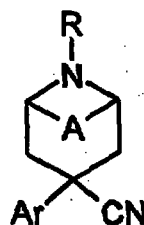




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(21) International Application Number: PCT/GB97/03056 (22) International Filing Date: 6 November 1997 (06.11.97) (30) Priority Data: 9624501.4 26 November 1996 (26.11.96) GB (71) Applicant (for all designated States except US): ZENBCA LIMITED [GB/GB]; 15 Stanhope Gate, London W1Y 6LN (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): CLOUGH, Martin, Stephen [GB/GB]; Jealott's Hill Research Station, Bracknell, Berkshire RG42 6ET (GB). EARLEY, Fergus, Gerard, Paul [IE/GB]; Jealott's Hill Research Station, Bracknell, Berkshire RG42 6ET (GB). DUNBAR, Stuart, John [GB/GB]; Jealott's Hill Research Station, Bracknell, Berkshire RG42 6ET (GB). (74) Agents: TIERNEY, Francis, John et al.; Zeneca Agrochemicals, Intellectual Property Dept., Jealotts Hill Research Station, P.O. Box 3538, Bracknell, Berkshire RG42 6YA (GB).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: INSECTICIDAL COMPOSITIONS AND METHODS (57) Abstract An insecticidal composition comprising a first insecticidally active ingredient, to which insect pests have developed a degree of resistance, an insecticidally inert carrier or diluent and, optionally, one or more surface active agents, characterised in that the composition further contains a sufficient amount of a compound of formula (I), wherein A represents a bidentate group of formula $-\text{CH}_2\text{CH}_2-$ or $\text{CH}=\text{CH}$; Ar is phenyl, pyridinyl, pyridazinyl or pyrazinyl, all being optionally substituted with halogen, C_{1-4} alkyl, C_{1-4} alkoxy, C_{2-4} alkenyl, C_{2-4} alkynyl or cyano; R is hydrogen, C_{1-4} alkyl (optionally substituted with cyano, $\text{CO}_2(\text{C}_{1-4}$ alkyl) or phenyl (itself optionally substituted with halogen, C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-4} haloalkyl or C_{1-4} haloalkoxy)), C_{2-4} haloalkyl (the α-carbon being unsubstituted), C_{3-4} alkenyl or C_{3-4} alkynyl; provided that when R is alkenyl or alkynyl said group does not have an unsaturated carbon atom bonding directly to the ring nitrogen of formula (I); or an acid addition salt, quaternary ammonium salt or N-oxide derived therefrom; to boost the activity of the composition to overcome the resistance of the insect pests; and a method of using such a composition to combat insect pests.  (I)		