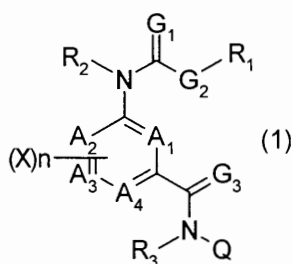


ABSTRACT

An object of the present invention is to provide insecticides having high effectiveness. The present invention provides

5 compounds represented by formula (1):



wherein A₁, A₂, A₃, and A₄ independently represent a carbon atom, a nitrogen atom, or an oxidized nitrogen atom; R₁ represents a C1-C6 alkyl group which may be substituted, a phenyl group which may be substituted, or a heterocyclic group which may be substituted; R₂ and R₃ independently represent a hydrogen atom, a C1-C4 alkyl group which may be substituted, or a C1-C4 alkylcarbonyl group which may be substituted; G₁, G₂, and G₃ independently represent an oxygen atom or a sulfur atom; Xs may be the same or different and each represent a hydrogen atom, a halogen atom, a C1-C4 alkyl group which may be substituted, or an amino group which may be substituted; n represents an integer of 0 to 4; Q represents a phenyl group which may be substituted, a naphthyl group which may be substituted, a tetrahydronaphthyl group which may be substituted, or a heterocyclic group which may be substituted, insecticides containing the compounds as active ingredients, and a method for producing the compounds.

The compounds represented by formula (1) exhibit an excellent preventive effect as insecticides and also exhibit an excellent

preventive effect when being combined with another insecticide, an acaricide, a nematocide, a fungicide, a herbicide, a plant growth regulator, or a biological pesticide.