

Title (en)

PROCESS FOR THE PREPARATION OF CHROMONE DERIVATIVES, NEW CHROMONE DERIVATIVES AND THEIR USE AS PLANT-PROTECTING AGENTS

Publication

**EP 0000377 B1 19810121 (DE)**

Application

**EP 78100318 A 19780706**

Priority

DE 2731566 A 19770713

Abstract (en)

[origin: US4189498A] 2-Carboxymethyl-3-carboxy-chromones and esters of the formula <IMAGE> in which R, R1 and R2 each independently is hydrogen, an optionally substituted alkyl, alkenyl, cycloalkyl, cycloalkenyl, aralkyl or aryl group, halogen, hydroxyl, cyano or an optionally substituted alkoxy, aryloxy, aralkoxy, alkoxy-carbonyl or dialkylamino group, or R and R1, together with two carbon atoms of the benzene ring system, form a carbocyclic or heterocyclic 5-membered or 6-membered ring, and R3 is hydrogen, optionally substituted alkyl, alkenyl, cycloalkyl, cycloalkenyl or aralkyl, are characterized by fungicidal and arthropodocidal activities. The novel compounds are produced by reacting an o-hydroxyacetophenone of the formula <IMAGE> with a glyoxylic acid derivative of the formula OCH-COOZ in which Z is a cation, in the presence of a basic compound, followed by acidification to form the dicarboxylic acid and, optionally, the ester.

IPC 1-7

**C07D 311/24**; **A01N 43/16**; **C07D 311/92**

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP0241003A3; US7026314B2; WO9827080A1; US6812225B2; US7045514B2; US7285662B2

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