

Title (en)

OMEGA-SUBSTITUTED PENTYL UREAS, THEIR PREPARATION AND THEIR USE AS FUNGICIDES

Publication

**EP 0000023 B1 19800723 (DE)**

Application

**EP 78100035 A 19780601**

Priority

- DE 2725315 A 19770604
- DE 2758108 A 19771224

Abstract (en)

[origin: US4188401A] 1-( omega -Substituted pentyl)-3-(2-cyano-acetyl)-ureas of the formula <IMAGE> in which R represents R1, CO-R2, CO-NH-R3 or CO-OR4, R1 represents unsubstituted alkyl with 1 to 10 carbon atoms; or represents substituted alkyl with 1 to 4 carbon atoms, which contains, as a substituent, a vinyl group, an alkynyl group with up to 4 carbon atoms, an alkylcarbonyl group with 2 to 5 carbon atoms, an alkoxy carbonyl group with 2 to 5 carbon atoms, an alkenoxycarbonyl or alkynoxycarbonyl group with 4 to 5 carbon atoms, an aminocarbonyl group, an N-alkylaminocarbonyl or N-cycloalkylaminocarbonyl group with up to 7 carbon atoms in either case or a N-phenylaminocarbonyl group, which can optionally have C1-C4 alkyl and/or chlorine as further substituents on the phenyl radical; or represents benzyl, which can be substituted in the aromatic part by a methyl, methoxy, methylenedioxy, nitro, trifluoromethyl, benzoyl, monochlorobenzoyl, dichlorobenzoyl, phenyl or phenoxy group or by 1 to 4 chlorine atoms; R2 represents a straight-chain or branched, saturated or unsaturated hydrocarbon radical with up to 8 carbon atoms, which can be substituted by chlorine or bromine or by a cyano group, R3 represents a straight-chain or branched alkyl radical with up to 11 carbon atoms, which can be substituted by a cyano group or by an alkoxy carbonyl radical with up to 5 carbon atoms, or represents a phenyl radical, which can be substituted by a methyl, nitro or trifluoromethyl group or by chlorine, R4 represents a saturated or unsaturated aliphatic group with up to 4 carbon atoms, Q represents CN, CO-NH2, COOH or CO-OR5, and R5 denotes an alkyl group with 1 to 4 carbon atoms, which possess fungicidal properties.

IPC 1-7

**C07C 131/00; A01N 47/34**

IPC 8 full level

**A01N 47/34** (2006.01); **C07C 67/00** (2006.01); **A01N 47/24** (2006.01); **C07C 239/00** (2006.01); **C07C 251/64** (2006.01); **C07C 271/60** (2006.01); **C07C 275/50** (2006.01); **C07D 317/58** (2006.01)

CPC (source: EP US)

**A01N 47/34** (2013.01 - EP US); **C07C 275/50** (2013.01 - EP US); **C07D 317/58** (2013.01 - EP US)

Cited by

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