

Title (en)  
HERBICIDAL PYRONES.

Title (de)  
HERBIZIDE PYRONE.

Title (fr)  
PYRONES HERBICIDES.

Publication  
**EP 0573460 A4 19940317 (EN)**

Application  
**EP 92904717 A 19920214**

Priority  
• AU PK462091 A 19910215  
• AU PK997391 A 19911211

Abstract (en)  
[origin: WO9214736A1] Compounds of formula (1) and/or tautomeric forms thereof, wherein A is a C1-C3 alkylene or C1-C3 alkenylene group optionally substituted with 1-4 C1-C3 alkyl substituents; X is O, S, SO, SO2, NR<10> or a single bond; R<1> is H, or one of a number of specified groups, or M; R<2> is C1-C6 alkyl or one of a number of other specified groups; R<3> and R<4> are independently H or C1-C4 alkyl; R<5> and R<6> are independently H, C1-C4 alkyl or one of a number of other specified groups optionally substituted as specified, or optionally substituted with substituents that include R<12> to R<23> as specified; or R<5> and R<6> together with the carbon to which they are attached form one of a number of specified carbocyclic or heterocyclic rings optionally substituted as specified, where one of the carbon atoms of the ring may be a carbonyl group or its corresponding dimethyl, diethyl or ethylene or propylene ketal; R<7>, R<8> and R<9> are independently H, or one of a number of specified groups; provided that when both R<5> and R<6> are independently C1-C4 alkyl, C2-C4 alkenyl, C2-C6 alkylthioalkyl, C1-C4 haloalkyl, C2-C4 haloalkenyl or C3-C6 cycloalkyl optionally substituted with specified substituents or when R<5> and R<6> together form an optionally substituted saturated or unsaturated carbocyclic or heterocyclic ring, then at least one of R<7>, R<8>, or R<9> is an optionally substituted benzenesulfonyl, benzoyl, benzyl, benzyloxy, pyridyl, phenoxy, phenylthio or phenylamino group or phenyl substituted with 1-3 substituents selected from the group consisting of halogen, C1-C4 alkyl, C1-C4 alkoxy and CF3; R<10> is H, C1-C4 alkyl or phenyl optionally substituted as specified; M is Li<+>, Na<+>, K<+>, NH4<+>, or N(R<11>)4<+> where R<11> is C1-C4 alkyl; herbicidal and plant growth compounds containing them, methods for regulating the growth of a plant and selectively inhibiting, damaging or killing weed grasses in a broad-leaf crop involving them.

IPC 1-7  
**C07D 495/10**; **C07D 309/32**; **C07D 311/96**

IPC 8 full level  
**A01N 43/16** (2006.01); **A01N 43/90** (2006.01); **C07D 309/32** (2006.01); **C07D 311/96** (2006.01); **C07D 491/107** (2006.01); **C07D 493/10** (2006.01); **C07D 495/10** (2006.01)

CPC (source: EP)  
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Citation (search report)  
• No further relevant documents disclosed  
• See references of WO 9214736A1

Designated contracting state (EPC)  
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DOCDB simple family (application)  
**AU 9200053 W 19920214**; BR 9205641 A 19920214; CN 92101624 A 19920215; EP 92904717 A 19920214; JP 50478492 A 19920214; PT 10012992 A 19920214; TW 81101064 A 19920214