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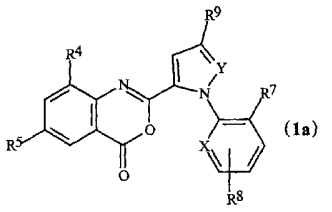
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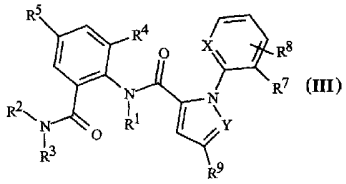
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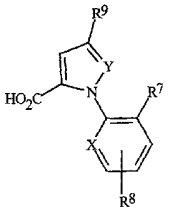
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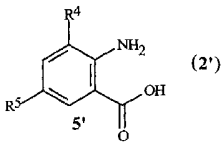
*[Continued on next page]*

(54) Title: METHOD FOR PREPARING FUSED OXAZINONES FROM ORTHO-AMINO AROMATIC CARBOXYLIC ACID AND A CARBOXYLIC ACID IN THE PRESENCE OF A SULFONYL CHLORIDE AND PYRIDINE






(57) Abstract: A method for preparing a fused oxazinone is disclosed in which (1) a carboxylic acid is contacted with a sulfonyl chloride in the presence of an optionally substituted pyridine compound, the nominal mole ratio of sulfonyl chloride to carboxylic acid being from about 0.75 to 1.5; (2) the mixture prepared in (1) is contacted with an *ortho*-amino aromatic carboxylic acid in the presence of an optionally substituted pyridine compound, the nominal mole ratio of the *ortho*-amino aromatic carboxylic acid to carboxylic acid charged in (1) being from about 0.8 to 1.2; and (3) additional sulfonyl chloride is added to the mixture prepared in (2), the nominal mole ratio of additional sulfonyl chloride added in (3) to carboxylic acid charged in (1) being at least about 0.5. Also disclosed is a method for preparing a compound of Formula III, using a compound of Formula 1a that is characterized by preparing the fused oxazinone of Formula 1a by the method above, using a compound of the formula $LS(O)_2Cl$ as the sulfonyl chloride, a compound of Formula 2' as the carboxylic acid, and a compound of Formula 5' as the *ortho*-amino aromatic carboxylic acid (FORMULA 1a) (FORMULA III) (FORMULA 2') (FORMULA 5') wherein L, X, Y and $R^1$ through $R^9$ are as defined in the disclosure.

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# INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**
IPC 7 C07D413/14 C07D401/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, CHEM ABS Data, EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| X | RAMANA ET AL: "FACILE SYNTHESIS OF 2-ARYL-4H-3,1-BENZOXAZIN-4-ONES" ORG. PREP. PROCED. INT., vol. 25, 1993, pages 588-590, XP009023796 cited in the application page 589 --- | 1-11 |
| P,X | WO 03 015518 A (DU PONT (US)) 27 February 2003 (2003-02-27) example 6, step D example 8, step E examples 18,19 --- | 1-11 |
| P,X | WO 03 015519 A (DU PONT (US)) 27 February 2003 (2003-02-27) schemes 1 and 2 examples 13,14 --- | 1-11 |

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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| Date of the actual completion of the international search | Date of mailing of the international search report |
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| P,X | WO 03 016283 A (DU PONT (US))<br>27 February 2003 (2003-02-27)<br>schemes 5 and 7 | 1-11 |

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Information on patent family members

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| | | WO 03016283 A1 | 27-02-2003 |
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