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## (54) Title: BIPYRAZOLYL DERIVATIVES USEFUL FOR THE TREATMENT OF AUTOIMMUNE DISEASES

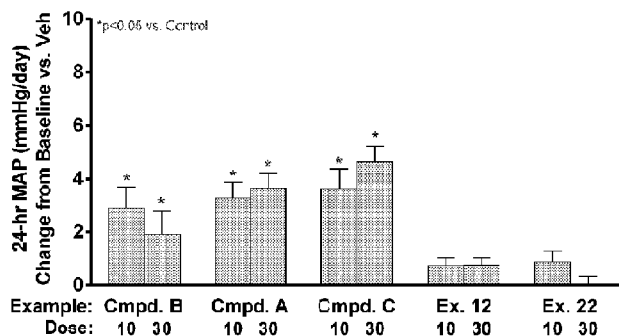
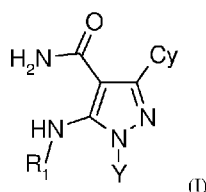


FIG. 1



(57) Abstract: The present invention encompasses compounds of the formula (I) wherein the groups  $R_1$ , Cy and Y are defined herein, which are suitable for the treatment of diseases related to BTK, and processes for making these compounds, pharmaceutical preparations containing these compounds, and their methods of use.



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## A. CLASSIFICATION OF SUBJECT MATTER

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ADD.

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)

C07D

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 practicable, search terms used)

EPO-Internal, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Relevant to claim No. |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A         | <p>WO 2014/025976 A1 (BOEHRINGER INGELHEIM INT [DE]; BENTZIEN JOERG MARTIN [US]; BERRY ANGEL) 13 February 2014 (2014-02-13) cited in the application</p> <p>page 1, line 9 - line 10<br/>page 2, line 20 - line 22<br/>page 3; compound (I)<br/>page 4, lines 1, 3<br/>page 5, line 8<br/>page 7, line 1 - line 8<br/>page 13, line 5 - line 9<br/>page 16; compound 6<br/>page 19; compound 18<br/>page 24; compound 35<br/>page 26; compound 41<br/>page 44; compounds 108, 109<br/>page 48; compounds 122, 123<br/>page 50; compounds 129, 130<br/>paragraph "Method 3";<br/>page 76</p> | 1-23                  |



Further documents are listed in the continuation of Box C.



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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|           | <p>paragraph "Method 8";<br/>page 82<br/>page 127 - page 130; table II<br/>page 130, line 8 - line 17<br/>claims 1, 7, 11, 18-21<br/>-----</p> |                       |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
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