(54) Title: 3-(PHENYL-ALKOXY)-5-(PHENYL)-PYRIDINE DERIVATIVES AND RELATED COMPOUNDS AS KINASE INHIBITORS FOR THE TREATMENT OF CANCER

(57) Abstract: Compounds having the formula (I), are useful for inhibiting protein kinases and for the treatment of cancer. Also disclosed are compositions which inhibit protein kinases and methods of inhibiting protein kinases in a patient.
# INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**

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

**B. FIELDS SEARCHED**

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**EPO-Internal, WPI Data, CHEM ABS Data**

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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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Further documents are listed in the continuation of box C.

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Patent family members are listed in annex.

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**Date of the actual completion of the international search**

5 May 2003

**Date of mailing of the international search report**

22/05/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl
Fax: (+31-70) 340-3016

Authorized officer

Cortés, J

Form PCT/SA/210 (second sheet) (July 1992)
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Continuation of Box I.1

Although claim 22 is directed to a method of treatment of the human body, the search has been carried out and based on the alleged effects of the compounds.

Rule 39.1(iv) PCT – Method for treatment of the human or animal body by therapy

Continuation of Box I.2

Claims Nos.: not searched: 4, 7, 8, 12-20; searched partly: 1-3, 5, 6, 9-11, 21, 22

The initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claims may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claims is impossible.

Consequently, the search has been restricted to what seems to be the most preferred group of compounds, i.e. to compounds of formula (II) wherein:

X=N
R1=optionally substituted phenyl or optionally substituted phenyl fused to form a heterocycle
L1=bond
R2=R4=H
L2=O
L3=bond or optionally substituted (as defined in claim 2) C1-C6-alkyl
R3=optionally substituted phenyl or optionally substituted phenyl fused to form a heterocycle
R6=as defined in claim 2

Claims 4, 7, 8 and 12-20 were therefore not searched at all and claims 1-3, 5, 6, 9-11, 21 and 22 were searched only partly.

The claim set is so broad in scope that it encompasses almost every aromatic or heteroaromatic mono- or bicyclic compound which has a second cyclic moiety in the molecule. On top of it, the claimed compounds are widely known for the alleged medical use (treatment of cancer).

It is noted that the general legal principle underlying the PCT is that the claimed scope must correspond to the technical contribution to the art.
The applicant’s attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.
INTERNATIONAL SEARCH REPORT

Box I  Observations where certain claims were found unsearable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(e) for the following reasons:

1. [X] Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
   see FURTHER INFORMATION sheet PCT/ISA/210

2. [X] Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
   see FURTHER INFORMATION sheet PCT/ISA/210

3. [ ] Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II  Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. [ ] As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest.

[ ] No protest accompanied the payment of additional search fees.
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