



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(51) International Patent Classification <sup>5</sup>:</b><br><b>A61K 31/295, 31/30, 31/315, 31/28</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>A3</b> | <b>(11) International Publication Number:</b> <b>WO 94/26263</b><br><b>(43) International Publication Date:</b> 24 November 1994 (24.11.94)                                                                                                                                                                                                                                                                                                                                                             |
| <b>(21) International Application Number:</b> PCT/GB94/00967<br><b>(22) International Filing Date:</b> 5 May 1994 (05.05.94)<br><b>(30) Priority Data:</b><br>9309387.0      6 May 1993 (06.05.93) <b>GB</b><br><b>(71) Applicant (for all designated States except US):</b> THE WELL-COME FOUNDATION LIMITED [GB/GB]; Unicorn House, 160 Euston Road, London NW1 2BP (GB).<br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> KAZMIERSKI, Wieslaw, Mieczyslaw [PL/US]; 1221 Stone Creek Way, Raleigh, NC 27615 (US). MOLINA, Luis [US/US]; 2135 North Lakeshore Drive, Chapel Hill, NC 27514 (US).<br><b>(74) Agent:</b> ROLLINS, Anthony, John; The Wellcome Foundation Limited, Langley Court, Beckenham, Kent BR3 3BS (GB). |           | <b>(81) Designated States:</b> AU, CA, CN, CZ, FI, GE, JP, KR, KZ, NO, NZ, PL, RU, SI, SK, UA, US, UZ, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).<br><b>Published</b><br><i>With international search report.</i><br><i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i><br><b>(88) Date of publication of the international search report:</b><br>5 January 1995 (05.01.95) |
| <b>(54) Title:</b> USE OF A TRANSITION METAL COMPLEX FOR THE TREATMENT OF SEPTIC SHOCK<br><b>(57) Abstract</b><br><p>The use of transition metal complexes in the treatment of septic shock, in particular the hypotension associated therewith and pharmaceutical formulations comprising such complexes are disclosed. The use of such transition metal complexes in the treatment of other conditions caused by pathological NO production are also disclosed.</p>                                                                                                                                                                                                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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## INTERNATIONAL SEARCH REPORT

Int. .onal Application No  
PCT/GB 94/00967

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 5 A61K31/295 A61K31/30 A61K31/315 A61K31/28

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)

IPC 5 A61K

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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                            | Relevant to claim No. |
|------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X          | DE,A,38 42 143 (NITSCH D.) 21 June 1990<br>see column 1, line 1 - line 21<br>see column 1, line 67 - column 2, line 4<br>---- | 1-11                  |
| A          | KIDNEY INT.,<br>vol.39, no.5, 1991<br>pages 822 - 30<br>see page 829, left column, line 7 - line 11<br>----                   | 1-11                  |
| A          | AM.REV.RESP.DIS.,<br>vol.139, no.4(2), 1989<br>page A423<br>* right col., second abstract *<br>----                           | 1-11                  |
| A          | CIRC.SHOCK,<br>vol.29, no.2, 1989<br>pages 77 - 92<br>-----                                                                   | 1-11                  |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

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- "P" document published prior to the international filing date but later than the priority date claimed

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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

27 July 1994

Date of mailing of the international search report

18. 11. 94

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB94/00967

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

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ 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:
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:

See for information Form PCT/ISA/206(extra sheet) dated: 02/09/94.

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.:

1-11 (partially).

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

### Information on patent family members

International Application No.

PCT/GB 94/00967

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---------------------|----------------------------|---------------------|
| DE-A-3842143                              | 21-06-90            | DE-A- 3844667              | 21-06-90            |
|                                           |                     | WO-A- 9006768              | 28-06-90            |
|                                           |                     | EP-A- 0401347              | 12-12-90            |
| -----                                     |                     |                            |                     |