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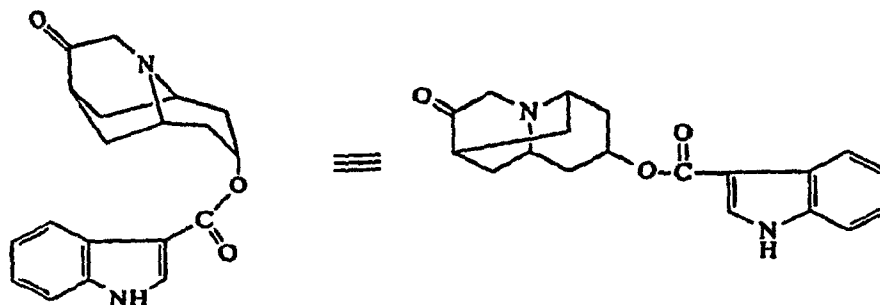
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(54) Title: POLYMORPHS OF DOLASETRON BASE AND PROCESS FOR PREPARATION THEREOF



(57) Abstract: The present invention provides polymorphic forms of dolasetron base and methods for their use and preparation.

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# INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/008866

## A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D455/02

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 practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                          | Relevant to claim No. |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A         | WO 2007/081907 A (TEVA GYOGYSZERGYAR ZARTKORUEN [HU]; TEVA PHARMA [US]; HAJKO JANOS [HU]) 19 July 2007 (2007-07-19) cited in the application figures 1-6                                                    | 1-14                  |
| A         | WO 2007/072507 A (USV LTD [IN]; TARUR VENKATASUBRAMANIAN RADHA [IN]; SATHE DHANANJAY GOV) 28 June 2007 (2007-06-28) cited in the application XRPD data of forms I-V, claims 39, 42, 50, 54<br>-----<br>-/-- | 1-14                  |

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

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

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"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

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## INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                  | Relevant to claim No. |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A         | <p>ANONYMOUS: "crystalline form of<br/>(2)-octahydro-3-oxo-2,6-methano-2H-quinoli<br/>zin-8-yl-1H-indole-3-carboxylate"<br/>IP. COM JOURNAL,<br/>vol. 7(IB), no. ipcom000144657d,<br/>4 January 2007 (2007-01-04), XP002501615<br/>cited in the application<br/>the whole document</p> <p>-----</p> | 1-14                  |

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2008/008866

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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 No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
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.:

1-14, 27-29

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14, 27-29

Crystalline dolasetron base form G, its preparation and use  
in the preparation of dolasetron salt  
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2. claims: 15 (partly), 24-26, 30 and 31 (partly)

Amorphous dolasetron base and its use in the preparation of  
dolasetron salt  
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3. claims: 15 (partly), 16-23, 30 and 31 (partly)

Crystalline dolasetron base form J and its use in the  
preparation of dolasetron salt  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/008866

| Patent document<br>cited in search report |   | Publication<br>date |    | Patent family<br>member(s) |  | Publication<br>date |
|-------------------------------------------|---|---------------------|----|----------------------------|--|---------------------|
| WO 2007081907                             | A | 19-07-2007          | EP | 1874767 A2                 |  | 09-01-2008          |
|                                           |   |                     | EP | 1861397 A2                 |  | 05-12-2007          |
|                                           |   |                     | EP | 1968588 A2                 |  | 17-09-2008          |
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|                                           |   |                     | WO | 2007081889 A2              |  | 19-07-2007          |
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| WO 2007072507                             | A | 28-06-2007          | WO | 2007072506 A2              |  | 28-06-2007          |
|                                           |   |                     | US | 2008275241 A1              |  | 06-11-2008          |
| <hr/>                                     |   |                     |    |                            |  |                     |