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Declarations under Rule 4.17:

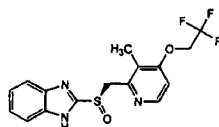
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

[Continued on next page]

(54) Title: PROCESS FOR THE PREPARATION OF DEXLANSOPRAZOLE POLYMORPHIC FORMS



(I)

(57) Abstract: The present invention relates to a novel process for the preparation of amorphous Dexlansoprazole formula (I): from Dexlansoprazole solvate. The present invention also relates to novel processes for the preparation of polymorphic forms IV, VI, amorphous, anhydrous and hemihydrate forms of Dexlansoprazole.

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INTERNATIONAL SEARCH REPORT

International application No
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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 practical, search terms used)
EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 552 833 A1 (TAKEDA CHEMICAL INDUSTRIES LTD [JP]) 13 July 2005 (2005-07-13) cited in the application page 21; claims 23, 26 page 12 - page 13; Production Examples 1 and 2	1-4
Y	WO 03/082857 A2 (TEVA PHARMA [IL]; TEVA PHARMA [US]; FINKELSTEIN NINA [IL]; WIZEL SHLOM) 9 October 2003 (2003-10-09) page 20; claim 45 page 11 - page 13; examples 2-4 ----- -/--	1-4

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 14 December 2010	Date of mailing of the international search report 04/05/2011
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Fink, Dieter
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INTERNATIONAL SEARCH REPORT

International application No
PCT/IN2010/000415

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2004/083200 A1 (FUJISHIMA AKIRA [JP]; AOKI ISAO [JP]; KAMIYAMA KEIJI [JP]) 30 September 2004 (2004-09-30) cited in the application page 13 - page 15; Reference Examples 1 and 2 -----	1-4
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A	WO 02/44167 A1 (TAKEDA CHEMICAL INDUSTRIES LTD [JP]; HASHIMOTO HIDEO [JP]; URAI TADASHI) 6 June 2002 (2002-06-06) cited in the application the whole document -----	1-4
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E	EP 2 216 333 A2 (DIPHARMA FRANCIS SRL [IT]) 11 August 2010 (2010-08-11) column 6, line 15 - line 36 column 7, line 42 - column 8, line 15 column 11; examples 9, 10 -----	1-4
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 2010, JANG, SUN YOUNG ET AL: "Method for preparing non- crystalline (+)-lansoprazole and (+)-lansoprazole alcoholate used in same", XP002614116, retrieved from STN Database accession no. 2010:1161381 abstract -----	1-4
E	-& WO 2010/104314 A2 (HANMI PHARM. CO., LTD., S. KOREA) 16 September 2010 (2010-09-16) the whole document -----	1-4

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN2010/000415

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 all searchable 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.:

1-4

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: 1-4

the process for the preparation of (known) amorphous
Dexlansoprazole according to the present claim 1;

2. claims: 5, 6

the process for the preparation of (known) amorphous
Dexlansoprazole according to the present claim 5;

3. claims: 7, 8(completely); 22(partially)

the process for the preparation of (known) amorphous
Dexlansoprazole according to the present claim 7;

4. claim: 9

the process for the preparation of (known) amorphous
Dexlansoprazole according to the present claim 9;

5. claims: 10(completely); 12(partially)

the process for the preparation of crystalline form IV of
Dexlansoprazole according to the present claim 10;

6. claims: 11(completely); 12(partially)

the process for the preparation of crystalline form VI of
Dexlansoprazole according to the present claim 11;

7. claims: 13(completely); 22(partially)

the process for the preparation of (known) anhydrous
Dexlansoprazole according to the present claim 13;

8. claim: 14

the process for the preparation of (known) anhydrous
Dexlansoprazole according to the present claim 14;

9. claims: 15-20

the processes for the preparation of (known) anhydrous
Dexlansoprazole according to the present claims 15 and 18;

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

10. claims: 21(completely); 22(partially)

the process for the preparation of (known) Dexlansoprazole
hemihydrate according to the present claim 21;

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IN2010/000415

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