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(54) Title: SOLID DOSAGE FORMULATIONS OF NARCOTIC DRUGS HAVING IMPROVED BUCCAL ADSORPTION

(57) Abstract: Disclosed is a pharmaceutical composition in the form of a tablet suitable for dissolution in the buccal cavity, said composition comprising i) an effective amount of a narcotic active ingredient, and ii) a pharmaceutically acceptable amine having a pK of about 8 or greater, wherein the molar ratio of amine:active ingredient is at least about 5:1.

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/EP2006/007189

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. A61K31/4468 A61K9/20

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)  
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)

EPO-Internal, WPI Data, CHEM ABS Data, BIOSIS, EMBASE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2005/065319 A2 (CIMA LABS INC [US]; MOE DEREK [US]; AGARWAL VIKAS [US]; HABIB WALID [U] 21 July 2005 (2005-07-21) abstract page 3, lines 25-29 page 4, line 26 - page 5, line 5 page 7, lines 14-20 page 11, line 30 - page 12, line 2 page 15, lines 7-11 page 42, line 23 - page 43, line 16 ----- -/--	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

29 November 2006

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10/01/2007

Name and mailing address of the ISA/

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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.
Y	WO 2004/069198 A2 (CEPHALON INC [US]; HAGUE BRIAN [US]; MALAND LYNN J [US]) 19 August 2004 (2004-08-19) page 5, line 29 - page 6, line 24 page 7, lines 14-33 page 13, line 5 - page 14, line 30 page 19, line 22 - page 21, line 7 page 22, lines 24-34 -----	1-14
Y	SENEL S ET AL: "Drug permeation enhancement via buccal route: possibilities and limitations" JOURNAL OF CONTROLLED RELEASE, ELSEVIER, AMSTERDAM, NL, vol. 72, no. 1-3, 14 May 2001 (2001-05-14), pages 133-144, XP004246443 ISSN: 0168-3659 page 134, column 1, lines 6-26 table 1 paragraph [2.1.2] table 3 -----	1-14
A	NAHAVANDI AREZO ET AL: "The role of the interaction between endogenous opioids and nitric oxide in the pathophysiology of ethanol-induced gastric damage in cholestatic rats" FUNDAMENTAL AND CLINICAL PHARMACOLOGY, vol. 15, no. 3, June 2001 (2001-06), pages 181-187, XP002409610 ISSN: 0767-3981 abstract page 184, column 1, line 4 - column 2, line 5 -----	1-14

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2006/007189

## Box 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:  
  
Although claims 13 and 14 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
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 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:

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.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2006/007189

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005065319 A2	21-07-2005	AU 2004311880 A1	21-07-2005
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		CA 2515025 A1	19-08-2004
		EP 1596836 A2	23-11-2005
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		US 2004253307 A1	16-12-2004