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(54) Title: METHODS AND COMPOSITIONS FOR DETERRING ABUSE OF ORALLY ADMINISTERED PHARMACEUTICAL PRODUCTS

(57) Abstract: This invention relates to an abuse deterrent formulation of an oral dosage form of a therapeutically effective amount of any active drug substance that can be subject to abuse combined with a gel forming polymer, a nasal mucosal irritating surfactant and a flushing agent. Such a dosage form is intended to deter abuse of the active drug substance via injection, nasal inhalation or consumption of quantities of the dosage unit exceeding the usual therapeutically effective dose.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/42808

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: A61K 49/00(2006.01);A61K 9/44(2006.01)

USPC: 424/10.1,10.2,10.3,10.4
 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)
 U.S. : 424/10.1,10.2,10.3,10.4

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 practicable, search terms used)
 EAST, STN

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
— Y	US2003/0064099A1 (OSHLACK et al.) 3 April 2003 (03.04.2003)	1-15,18-32,34-44,47,48,50-54 and 58-70 and 47-70
— Y	US2006/0018837A1 (PRESTON et al.) 26 January 2006 (26.01.2006)	1-44 and 47-70
— Y	US 6,589,556B2 (CHERUKI et al.) 08 July 2003 (08.07.2003)	1-8,14,16-25,28,39-44,49-62 and 65-70

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	“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
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“L” document which may throw doubts on priority claims) or which is cited to establish the publication date of another citation or other special reason (as specified)	“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
“O” document referring to an oral disclosure, use, exhibition or other means	“&” document member of the same patent family
“P” document published prior to the international filing date but later than the priority date claimed	

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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	US2004/0151791A1 (MAYO-ALVAREZ et al.) 05 August 2004 (05.08.2004)	<p>1-8, 14, 15, 18- 25, 28, 32, 36- 42, 47, 48, 50-54, 58-61 and 65-70</p>
— Y	WO/2000/033835 (ALAUX et al.) 15 June 2000 (15.06.2000)	<p>1-8, 12, 18-25, 30, 39- 46, 58, 60 and 65-70</p>