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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: ARIPIPRAZOLE AND HALOPERIDOL PAMOATE SALTS

(57) Abstract: The invention relates to the discovery that pamoate salts of haloperidol and aripiprazole result in a good to superior long acting and/or extended release profile. Thus, in one aspect of the invention, the invention includes pamoate salts of haloperidol or aripiprazole. Preferably, the pamoate salt is characterized by a ratio of haloperidol to pamoate of 1:1 or 2:1. The pamoate salt can be crystalline, such as a needle or a dense crystal, such as described in the Figures. The invention further relates to methods of treating an individual in need thereof comprising administering a pharmaceutical composition comprising a pamoate salt of haloperidol and aripiprazole.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24344

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/445, 31/495; C07D 211/52, 403/02

US CL : 514/253, 327; 544/363; 546/217

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. : 514/253, 327; 544/363; 546/217

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)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                              | Relevant to claim No. |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A          | US 5,656,299 A (Kino et al.) 12 August, 1997, columns 5-8, example 4 and formula C or D.                                                                                                                                        | 1-4, 8-16             |
| A          | WO 02/069941 A1 (Flaccus et al. ) See whole article.                                                                                                                                                                            | 1-4, 8-16             |
| A,P        | Database CAPLUS on STN (Columbus, OH, USA), No.140:210809, 'Piperidine-2,6-dione pamoate salts for the treatment of stress-related affective disorders, and pharmaceutical compositions containing them'<br>see entire article. | 1-16                  |

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

| * Special categories of cited documents:                                                                                                                                |                                                                                                                                                                                                                                                  |
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Continuation of B. FIELDS SEARCHED Item 3:

CAS-structure

EAST/WEST subclass