Title: PROCESS FOR MANUFACTURING OXYCODONE

Abstract: Oxycodone is manufactured in high yields and with a high purity using 5 codeine or a salt of codeine as the starting material. The manufacturing process involves the following steps: (a) codeine or a codeine salt (e.g., codeine phosphate) is converted into the intermediate N-carboxaloyxy- or N-carboxaloyxyxynorcodeine; (b) the intermediate N-carboxaloyxy- or N-carboxaloyxyxynorcodeine resulting from step (a) is oxidized to yield the intermediate N-carboxaloyxy- or N-carboxaloyxyxynorcodeine; (c) the intermediate N-carboxaloyxy- or N-carboxaloyxyxynorcodeine resulting from step (b) is enolized with a base and the resultant enolate is thereafter methylated to yield the intermediate N-carboxaloyxy- or N-carboxaloyxyxynorthebaine; (d) the intermediate N-carboxaloyxy- or N-carboxaloyxyxynorthebaine resulting from step (c) is reduced to yield thethebaine; (e) the thebaine resulting from step (d) is oxidized to yield’, the intermediate 14-hydroxycodeinone; and (f) the intermediate 14-hydroxycodeinone resulting from step (e) is hydrogenated to yield oxycodone.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07D 515/06, 515/08
US CL : 546/44, 45

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. : 546/44, 45

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)
CAS online

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 6,090,943 A (MUDRYK et al.) 18 July 2000 (18.07.2000), column 1, lines 45-65.</td>
<td>1-18</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,112,975 A (WALLACE) 12 May 1992 (12.05.1992), column 2 lines 2+.</td>
<td>1-18</td>
</tr>
<tr>
<td>Y</td>
<td>US 4,045,440 A (RAPPORT et al.) 30 August 1977 (30.08.1977), abstract.</td>
<td>1-18</td>
</tr>
</tbody>
</table>

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

* Special categories of cited documents:

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"&" document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report
18 JAN 2005

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