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(31) Title:

OXYGENATE CONVERSION TO OLEFINS WITH ENHANCED CARBONYL RECOVERY

(41) Applicant (for all designated States except US): UOP LLC [US/US]; Frank S. Molinaro, Assistant Secretary-Patent Matters, 25 East Algonquin Road, P.O. Box 5017, Des Plaines, Illinois 60017-5017 (US).

(52) Inventions

Oxygenate conversion to olefins with enhanced carbonyl recovery

(54) Abstract:

Improved processing of an oxygenate-containing feedstock involving increased or enhanced removal or recovery of carbonyls, particularly, acetaldehyde via either or both application of a more stringent stripping regime or addition of a sulfite-containing material.
**INTERNATIONAL SEARCH REPORT**

**INTERNATIONAL APPLICATION**

- **International application No.** PCT/US 06/62264

**A CLASSIFICATION OF SUBJECT MATTER**

- **IPC(8) -** C07C 2/00 (2007.01)
- **USPC -** 585/500

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) USPC - 585/500**

**DOCUMENTS CONSIDERED TO BE RELEVANT**

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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
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<td>X</td>
<td>US 6,459,009 B1 (Miller et al.) 01 October 2002 (01 10 2002) fig 4, col 5, in 39-50, col 11 In 27, col 12 In 65 to col 14 In 54</td>
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<td>Y</td>
<td>US 2004/0104181 A1 (Shiota et al.) 03 June 2004 (03 06 2004) para [0037]-[0039], [0061]-[0064]</td>
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**D** Further documents are listed in the continuation of Box C

- **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

Date of the actual completion of the international search

11 September 2007 (11 09 2007)

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