Title: PROCESS FOR THE PRODUCTION OF LOW BENZENE GASOLINE

Abstract: A process for the production of low benzene content gasoline is disclosed wherein a full boiling range naphtha is fractionated to produce a light naphtha, a medium naphtha and a heavy naphtha. The benzene is contained in the medium naphtha and this stream is subjected to hydrogenation to convert the benzene to cyclohexane which may be isomerized to improve the octane. The valuable olefins are removed in the light naphtha and the valuable heavier aromatics (toluene and xylenes) are removed in the heavy naphtha. In a preferred embodiment all of the reactions are carried out in distillation column reactors.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : C10B 37/02; C10G 51/02, 55/02, 57/00, 65/02, 67/02
US CL : 585/264, 258, 266; 208/210, 211, 212
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. : 585/264, 258, 266; 208/210, 211, 212

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

<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>X</td>
<td>US 5,817,227 A (MIKITENKO et al) 06 October 1998, see entire document.</td>
<td>1-2</td>
</tr>
</tbody>
</table>

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

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Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of B. FIELDS SEARCHED Item 3:
USPAT; PGPUB; EPO; DERWENT; JPO; USOCR
distillation, column, reactor, thioetherification, naphtha, hydrogenat, benzene, cyclohexane, gasoline, low