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(54) Title: METHANOL PRODUCTION PROCESS AND SYSTEM

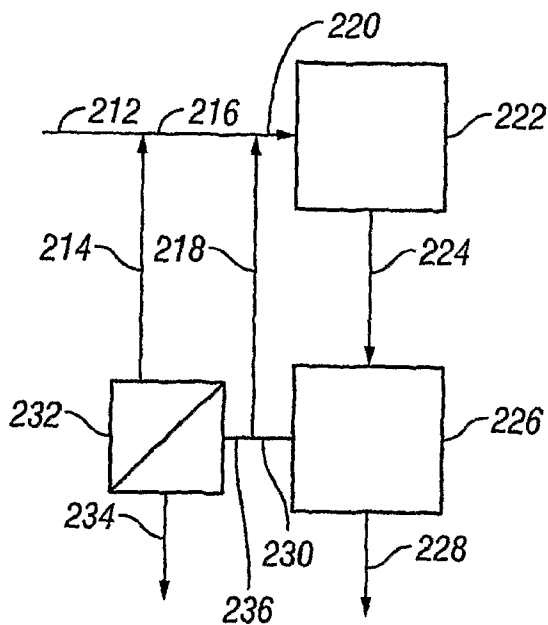


FIG. 1

(57) Abstract: A process and a system are disclosed for producing methanol from synthesis gas. The synthesis gas is a stream containing H<sub>2</sub>, CO, and CO<sub>2</sub> that is created using a nitrogen containing oxidant stream, such as air. The synthesis gas is then reacted through a conventional reactor system to create methanol. Unreacted synthesis gas is recycled back through the reactor system.

WO 2007/142702 A3

**INTERNATIONAL SEARCH REPORT**

International application No.

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**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC(8): C07C 27/00( 2006.01)

USPC: 518/700,702,703,704,705  
 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. : 518/700, 702, 703, 704, 705

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 AND WEST

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,173,513 A (PINTO) 22 December 1992, see entire document	1-21
Y	US 4,650,814 A (KELLER) 17 March 1987, see entire document.	1-21
Y	US 5,424,335 A (ABBOTT) 13 June 1995, see entire document.	1-21

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

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"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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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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