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[Continued on nextpage]

(54) Title: HYDROCARBON CONVERSION PROCESS

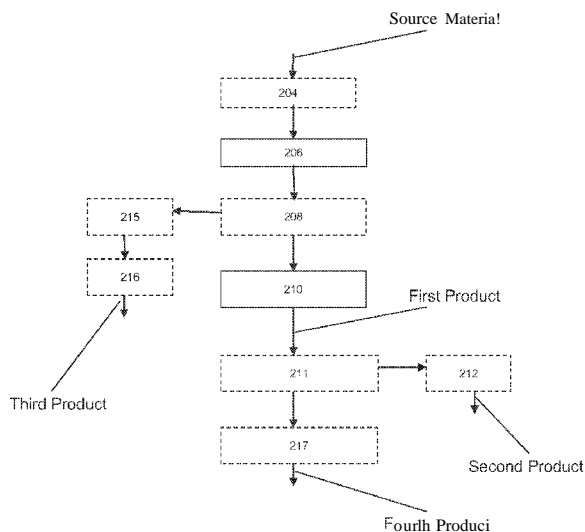


Fig. 1

(57) Abstract: The invention relates to a process for converting hydrocarbons into products containing aldehydes and/or alcohols. The invention also relates to producing olefins from the aldehyde and alcohol, to polymerizing the olefins, and to equipment useful for these processes.

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UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
 INV. C07C29/16 C07C45/50 C07C31/10 C07C47/02 C08F10/06  
 ADD.  
 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)  
 C07C C08F

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)  
 EPO-Internal , WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	col umn 5, lines 57-62 ; examples 1-8 col umn 3, line 13 - line 18 col umn 6, line 60 - col umn 7, line 34 -----	1-24
Y	WATT L: "THE PRODUCTION OF ACETYLENE FROM METHANE BY PARTIAL OXIDATION", THESIS UNIVERSITY OG BRITISH COLUMBIA, , 1 September 1951 (1951-09-01) , pages 1-50, XP007921785 , page 2, last paragraph - page 6, paragraph second page 5, last paragraph - page 6, paragraph second ----- -/- .	1-24

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

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"&" document member of the same patent family

Date of the actual completion of the international search <b>22 April 2013</b>	Date of mailing of the international search report <b>03/05/2013</b>
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer <b>Cagnol i , Mi chel e</b>
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## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2011/066174

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No <b>PCT/US2011/066174</b>
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