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(54) Title: METHOD FOR TREATING A HYDROCARBON-CONTAINING FORMATION

(57) Abstract: The present invention provides a method for the production of synthesis gas from a hydrocarbon-containing subterranean formation comprising: providing heat to at least a portion of the subterranean formation such that at least a part of the heated portion reaches the pyrolysis temperature of kerogen, yielding pyrolysis products; collecting pyrolysis products from the subterranean formation; injecting a synthesis gas-generating component into the heated part of the formation, resulting in the production of synthesis gas by reaction of the synthesis gas-generating component with carbonaceous material remaining in the formation; and recovering synthesis gas. The synthesis gas thus produced can be used for Fischer-Tropsch synthesis, manufacture of ammonia, urea, methanol, methane and other hydrocarbons, or used as energy source, e.g. in fuel cells. Carbon dioxide produced in such use of the synthesis gas can be sequestered in the formation.

# INTERNATIONAL SEARCH REPORT

National Application No  
PCT/EP 01/04669

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 E21B43/24

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)  
IPC 7 E21B

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 practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 914 309 A (WILHELM SALOMONSSON GOSTA JOHA) 24 November 1959 (1959-11-24) column 6, line 37 -column 7, line 14 figure 6	1,3,5,6
Y	---	8
Y	US 3 986 349 A (EGAN CLARK J) 19 October 1976 (1976-10-19) column 5, line 5-50 ---	8
X	US 4 344 483 A (FISHER CHARLES B ET AL) 17 August 1982 (1982-08-17) column 1, line 62 -column 2, line 53 --- -/--	1-4,6



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 4 067 390 A (CAMACHO SALVADOR LUJAN ET AL) 10 January 1978 (1978-01-10)</p> <p>column 10, line 16-53</p> <p>column 11, line 16-66</p> <p>column 13, line 19-36</p> <p>column 13, line 53-59</p> <p>-----</p>	<p>1-3,5,6, 9</p>

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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US 3986349	A	19-10-1976	US 4092825 A	06-06-1978
US 4344483	A	17-08-1982	NONE	
US 4067390	A	10-01-1978	NONE	