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EUROPEAN PATENT APPLICATION

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report: **26.01.83 Bulletin 83/4**

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㉚ **An improved process for the pyrolysis of carbonous materials.**

㉛ Carbonous materials such as subbituminous coal, oil shale, lignite and peat are converted to liquid and gaseous products by (a) impregnating the material with one or more water soluble salts of iron and/or zinc, preferably the sulfate or chloride thereof, (b) treating, for example by raising the pH or with sodium carbonate, to precipitate the iron and/or zinc as oxide or a form which can be readily converted to oxide, and (c) pyrolyzing the treated material at a temperature from about 400 °C to 700 °C, and at short gas residence times and long solids residence times, in the presence of hydrogen.



European Patent
Office

EUROPEAN SEARCH REPORT

0055600

EP 81 30 6071

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
X	FR-A- 793 108 (INTERNATIONAL HYDROGENATION PATENTS COMPANY LIMITED) *Claims 1,2,3,5,7*	1,2,4, 5,6,9, 10	C 10 G 1/06 C 10 G 1/08
A	FR-A-2 314 936 (BATTELLE) *Claims 1,2,7,13*	1,2,9, 10	
A	FR-A-2 391 262 (EXXON) *Claim 1*	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			C 10 G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28-10-1982	Examiner DE HERDT O.C.E.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	