

Title (en)

AN IMPROVED PROCESS FOR THE PYROLYSIS OF CARBONOUS MATERIALS

Publication

EP 0055600 A3 19830126 (EN)

Application

EP 81306071 A 19811223

Priority

US 22068480 A 19801229

Abstract (en)

[origin: EP0055600A2] 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 DEG C to 700 DEG C, and at short gas residence times and long solids residence times, in the presence of hydrogen.

IPC 1-7

C10G 1/06; **C10G 1/08**

IPC 8 full level

C10G 1/06 (2006.01); **B01J 27/00** (2006.01); **C10G 1/08** (2006.01); **C10J 3/72** (2006.01)

CPC (source: EP)

C10G 1/08 (2013.01)

Citation (search report)

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- [A] FR 2314936 A1 19770114 - BATTELLE MEMORIAL INSTITUTE [US]
- [A] FR 2391262 A1 19781215 - EXXON RESEARCH ENGINEERING CO [US]

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DE FR GB

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EP 0055600 A2 19820707; **EP 0055600 A3 19830126**; AU 7903681 A 19820708; BR 8108406 A 19821013; CA 1164382 A 19840327; IL 64660 A0 19820331; JP S57133190 A 19820817; ZA 818969 B 19821124

DOCDB simple family (application)

EP 81306071 A 19811223; AU 7903681 A 19811224; BR 8108406 A 19811228; CA 389513 A 19811105; IL 6466081 A 19811228; JP 21007881 A 19811228; ZA 818969 A 19811229