

Title (en)
PROCESS FOR THE HYDROGENATION OF COAL

Publication
EP 0056487 B1 19851121 (DE)

Application
EP 81110725 A 19811223

Priority
DE 3101598 A 19810120

Abstract (en)
[origin: US4468315A] A process for hydrogenating coal which has been mixed with oils, by bringing the coal slurry to the reaction pressure by pumping, heating the slurry and catalytically hydrogenating it with hydrogen, wherein some or all of the hot gases and vapors formed during hydrogenation are intimately re-mixed with the coal slurry in a plurality of stages. After the first mixing stage, the gases are freed from the product, and the product-free gases, especially hydrogen, are used as a thermal medium.

IPC 1-7
C10G 1/08

IPC 8 full level
C10G 1/08 (2006.01)

CPC (source: EP US)
C10G 1/083 (2013.01 - EP US)

Cited by
WO2017067026A1

Designated contracting state (EPC)
BE DE FR GB IT NL

DOCDB simple family (publication)
EP 0056487 A2 19820728; EP 0056487 A3 19830622; EP 0056487 B1 19851121; DE 3101598 A1 19820826; DE 3173032 D1 19860102;
US 4468315 A 19840828

DOCDB simple family (application)
EP 81110725 A 19811223; DE 3101598 A 19810120; DE 3173032 T 19811223; US 33768282 A 19820107