

Title (en)
HYDROCARBON STEAM-CRACKING PROCESS

Publication
EP 0127519 B1 19870128 (FR)

Application
EP 84400992 A 19840516

Priority
FR 8308395 A 19830520

Abstract (en)
[origin: US4832822A] The steam and thermal cracking of hydrocarbons is facilely carried out by in situ generating a stream of hot combustion gases including steam, advantageously in the configuration of a downstream axially extending, axially symmetrical helical flowstream, by combustion of steam-producing reactants in a combustion first reaction zone, and serially directly contacting and intimately admixing a liquid hydrocarbon feedstock with said gas of combustion in a downstream isodistribution, non-multi-tubular second reaction zone, advantageously first at a zone of reduced pressure thereof, the momentum of said gas of combustion at the point of direct contact being such as to provide all of the thermal and mechanical energy and heat transfer required to autogenously vaporize, entrain and effect cracking therein of said liquid hydrocarbon feedstock.

IPC 1-7
C10G 9/38

IPC 8 full level
C10G 11/20 (2006.01); **C10G 9/38** (2006.01)

CPC (source: EP US)
C10G 9/38 (2013.01 - EP US)

Cited by
FR3047483A1; WO2017137698A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0127519 A1 19841205; EP 0127519 B1 19870128; AT E25263 T1 19870215; DE 3462267 D1 19870305; FR 2546174 A1 19841123; FR 2546174 B1 19860919; JP S6047097 A 19850314; US 4832822 A 19890523

DOCDB simple family (application)
EP 84400992 A 19840516; AT 84400992 T 19840516; DE 3462267 T 19840516; FR 8308395 A 19830520; JP 10034084 A 19840518; US 20498988 A 19880610