

Title (en)

METHOD AND FACILITY FOR CHEMICALLY CONVERTING CARBONACEOUS MATERIAL BY MEANS OF TOP GAS QUENCHING

Title (de)

VERFAHREN UND ANLAGE ZUR CHEMISCHEN UMWANDLUNG VON KOHLENSTOFFHALTIGEM MATERIAL MITTELS
TOPGASABSCHRECKUNG

Title (fr)

PROCÉDÉ ET INSTALLATION POUR LA CONVERSION CHIMIQUE D'UNE MATIÈRE CARBONÉE AVEC TREMPÉ AU GAZ DE TÊTE

Publication

EP 3371275 A1 20180912 (FR)

Application

EP 16791592 A 20161104

Priority

- FR 1560616 A 20151105
- EP 2016076752 W 20161104

Abstract (en)

[origin: WO2017077090A1] The present invention relates to a method for chemically converting carbonaceous material comprising at least the steps of: (a) gasifying said carbonaceous material in an entrained-flow or fluidized-bed reactor by means of which a synthesis gas is produced, (b) subjecting said synthesis gas to quenching by adding a quenching fluid thereto, (c) subjecting the quenched effluent to a purification treatment, (d) subjecting the purified effluent to a catalytic synthesis reaction using CO and H₂ as reagents by means of which a gaseous effluent and a liquid effluent are obtained, all or a portion of the gaseous effluent obtained in step (d) being used in step (b) as a quenching fluid. The present invention also relates to a facility capable of being implemented during such a method.

IPC 8 full level

C10G 2/00 (2006.01); **C01B 3/32** (2006.01); **C01B 3/34** (2006.01); **C01B 3/36** (2006.01); **C07C 1/04** (2006.01); **C10J 3/46** (2006.01); **C10J 3/48** (2006.01)

CPC (source: EP)

C07C 1/04 (2013.01); **C10G 2/32** (2013.01); **C10J 3/463** (2013.01); **C10J 3/466** (2013.01); **C10J 3/482** (2013.01); **C10J 3/485** (2013.01); **C01B 2203/0205** (2013.01); **C01B 2203/0283** (2013.01); **C01B 2203/0465** (2013.01); **C01B 2203/0475** (2013.01); **C01B 2203/048** (2013.01); **C01B 2203/0485** (2013.01); **C01B 2203/0495** (2013.01); **C01B 2203/061** (2013.01); **C01B 2203/062** (2013.01); **C01B 2203/147** (2013.01); **C10J 2300/1659** (2013.01); **C10J 2300/1662** (2013.01); **C10J 2300/1665** (2013.01); **Y02E 50/30** (2013.01)

Citation (search report)

See references of WO 2017077090A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2017077090 A1 20170511; EP 3371275 A1 20180912; FR 3043340 A1 20170512; FR 3043340 B1 20171215

DOCDB simple family (application)

EP 2016076752 W 20161104; EP 16791592 A 20161104; FR 1560616 A 20151105