

Title (en)

PROCESS AND APPARATUS FOR PRESSURIZED GASIFICATION IN A FIXED BED

Title (de)

VERFAHREN UND ANLAGE ZUR FESTBETTD RUCKVERGASUNG

Title (fr)

PROCÉDÉ ET INSTALLATION DE LA GAZÉIFICATION EN LIT FIXE SOUS PRESSION

Publication

**EP 3290493 A1 20180307 (DE)**

Application

**EP 16400040 A 20160902**

Priority

EP 16400040 A 20160902

Abstract (en)

[origin: WO2018041411A1] Process and plant for converting a solid, carbon-containing fuel such as coal or coke into a crude synthesis gas comprising mainly hydrogen and carbon monoxide and into ash using a shaft reactor, wherein the discharged ash is at least partly recirculated to the reactor and together with the fuel passes through the fixed bed.

Abstract (de)

Verfahren und Anlage zur Umwandlung eines festen, kohlenstoffhaltigen Brennstoffs, wie Kohle oder Koks, zu einem hauptsächlich Wasserstoff und Kohlenmonoxid umfassenden Rohsynthesegas und zu Asche, unter Verwendung eines Schachtreaktors, wobei die ausgetragene Asche, zumindest teilweise, in den Reaktor zurückgeführt wird und mit dem Brennstoff das Festbett durchläuft.

IPC 8 full level

**C10J 3/30** (2006.01); **C10J 3/42** (2006.01)

CPC (source: CN EP)

**C10J 3/04** (2013.01 - CN); **C10J 3/20** (2013.01 - CN); **C10J 3/30** (2013.01 - EP); **C10J 3/42** (2013.01 - EP); **C10J 2200/156** (2013.01 - EP); **C10J 2300/093** (2013.01 - CN); **C10J 2300/0956** (2013.01 - EP); **C10J 2300/0959** (2013.01 - CN); **C10J 2300/0976** (2013.01 - CN EP); **C10J 2300/0993** (2013.01 - EP); **C10J 2300/1628** (2013.01 - CN); **C10J 2300/1631** (2013.01 - EP); **C10J 2300/1807** (2013.01 - CN EP)

Citation (applicant)

- "Ullmanns Encyclopedia of Industrial Chemistry", vol. 15, pages: 367 FF
- "Ullmanns Enzyklopädie der Technischen Chemie", vol. 14, 1977, pages: 384

Citation (search report)

- [X] AU 469916 B2 19760226
- [X] GB 1435088 A 19760512 - GEN ELECTRIC
- [A] WO 0123806 A1 20010405 - WORLD OASIS AUSTRALIA PTY LTD [AU], et al

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)

**EP 3290493 A1 20180307**; **EP 3290493 B1 20211110**; CN 107794090 A 20180313; CN 207567181 U 20180703; WO 2018041411 A1 20180308

DOCDB simple family (application)

**EP 16400040 A 20160902**; CN 201710779718 A 20170901; CN 201721120405 U 20170901; EP 2017025235 W 20170821