

Title (en)

Process and apparatus for the gasification of coal.

Title (de)

Verfahren und Einrichtung zur Vergasung von Kohle.

Title (fr)

Procédé et appareil pour la gazéification du charbon.

Publication

**EP 0000442 A1 19790124 (EN)**

Application

**EP 78300130 A 19780707**

Priority

GB 2924677 A 19770712

Abstract (en)

A coal gasification process and apparatus therefor in which means are provided for supplying fuel to and maintaining a fixed fuel bed in the upper region of a reactor vessel, supplying additional fuel together with a gasifying agent to initiate and maintain gasification in an entrained stage located in the lower region of the vessel, the gasification products from the entrained stage passing up through and gasifying fuel in the fixed bed, the slag from the fixed bed passing downwards to mix with slag from the entrained stage and exits via a slag tap to a slag quench system located below the reactor vessel. The fixed bed may be maintained in the upper region of the vessel by a grate which extends across the vessel. The grate may be cooled by the circulation of an appropriate coolant through the elements forming the grate.

IPC 1-7

**C10J 3/02**; C10J 3/08; C10J 3/20; C10J 3/36; C10J 3/46

IPC 8 full level

**C10J 3/02** (2006.01); **C10J 3/08** (2006.01); **C10J 3/20** (2006.01); **C10J 3/36** (2006.01); **C10J 3/46** (2006.01)

CPC (source: EP)

**C10J 3/02** (2013.01); **C10J 3/08** (2013.01); **C10J 3/20** (2013.01); **C10J 3/36** (2013.01); **C10J 3/485** (2013.01); **C10J 3/74** (2013.01); **C10J 3/76** (2013.01); **C10J 3/78** (2013.01); **C10J 3/845** (2013.01); **C10J 2300/093** (2013.01); **C10J 2300/0956** (2013.01); **C10J 2300/0959** (2013.01); **C10J 2300/0976** (2013.01)

Citation (search report)

- [X] GB 933481 A 19630808 - CAMPBELL HERBERT SECORD
- [A] DE 912385 C 19540528 - METALLGESELLSCHAFT AG

Cited by

EP0050905A1; CN104245897A; GB2164660A; GB2138841A; EP0554529A1; CN112608769A; US9822003B2; WO2008027601A2; WO8601821A1; WO2013120901A1; US6348522B1

Designated contracting state (EPC)

BE DE FR GB NL

DOCDB simple family (publication)

**EP 0000442 A1 19790124**; BE 14 T1 19791207; DE 2857286 A1 19800228; FR 2426080 A1 19791214; FR 2426080 B1 19840127; GB 2040994 A 19800903; GB 2040994 B 19820818; IT 7868650 A0 19780712; JP S5436302 A 19790317; NL 7815038 A 19791031; PL 116358 B1 19810630; PL 208345 A1 19790730; ZA 783934 B 19790725

DOCDB simple family (application)

**EP 78300130 A 19780707**; BE 78300130 A 19780707; DE 2857286 A 19780707; FR 7918768 A 19790718; GB 7929801 A 19780707; IT 6865078 A 19780712; JP 8499378 A 19780712; NL 7815038 A 19780707; PL 20834578 A 19780712; ZA 783934 A 19780710