

Title (en)

Process and apparatus for the production of synthesis gas.

Title (de)

Verfahren und Vorrichtung zur Herstellung von Synthesegas.

Title (fr)

Procédé et appareil pour la production de gaz de synthèse.

Publication

EP 0115094 A2 19840808 (EN)

Application

EP 83201705 A 19831130

Priority

DE 3248551 A 19821229

Abstract (en)

Process for the production of synthesis gas comprising the steps: a) a finely divided carbonaceous fuel is partially combusted in a gasifier, b) liquid slag is removed from the bottom of the gasifier, c) hot crude synthesis gas containing entrained slag droplets is removed from the top of the gasifier and passes upwards through a radiation chamber where it is cooled, d) the gas is passed upwards through a superheater to cool it further, e) the flow of the gas is reversed in a pipe connecting the superheater with an evaporator f) the gas is passed downwards through the evaporator, to cool it still further, g) slag particles are separated from the cooled crude synthesis gas. Apparatus for carrying out the process described hereinbefore.

IPC 1-7

C10J 3/46; **C10J 3/48**; **C10J 3/86**

IPC 8 full level

C10J 3/46 (2006.01); **C10J 3/48** (2006.01); **C10J 3/86** (2006.01)

CPC (source: EP)

C10J 3/466 (2013.01); **C10J 3/485** (2013.01); **C10J 3/86** (2013.01); **C10K 1/026** (2013.01); **C10J 2300/093** (2013.01); **C10J 2300/1846** (2013.01)

Cited by

EP0150533A3; US5803937A; US5441547A; US5445658A; EP2336276A1; AU2008340600B2; US4950308A; CN105936836A; EP0616022A1; WO2009080334A3

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0115094 A2 19840808; **EP 0115094 A3 19850522**; AU 2273683 A 19840705; JP S59133292 A 19840731; ZA 839538 B 19840829

DOCDB simple family (application)

EP 83201705 A 19831130; AU 2273683 A 19831221; JP 24231283 A 19831223; ZA 839538 A 19831222