

Title (en)
GAS PRODUCERS

Publication
EP 0119183 A3 19850515 (FR)

Application
EP 84870034 A 19840307

Priority
BE 6047791 A 19830309

Abstract (en)
[origin: EP0119183A2] In a gas producer fuel is fed from a storage hopper to a combustion zone (1) of a furnace having air inlet nozzles 2, 3. Gases are produced in the combustion zone and travel downwards into zones 4, 5 where they are separated from any residual solids, which are deposited on grate 6. The gases from zones 4, 5 pass into a space between coaxial ducts 8, 9 through an opening 7 at the lower end of the outer duct 8. Apertures may also be provided in the lower end of the outer duct 8. The gases pass upwards to the closed end of outer duct 8 and are then sucked downwards through inner duct 9 to outlet pipes 11. The temperature of the gas is increased as it passes through the coaxial ducts, thus assisting conversion and cracking reactions which improve the quality of the gas, for example converting CO₂ to CO. Baffles are provided on the inner wall of outer duct 8 to slow the passage of the gas and to increase the transfer of heat. Outer duct 8 preferably extends up into the upper region of the furnace. The gas from outlet pipes 11 is circulated around the outside of zones 4, 5 for heat transfer and is then sucked out through pipe 14 to an engine to be powered. <IMAGE>

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C10J 3/26; **C10J 3/44**

IPC 8 full level
C10J 3/26 (2006.01); **C10J 3/44** (2006.01)

CPC (source: EP)
C10J 3/26 (2013.01); **C10J 3/30** (2013.01); **C10J 3/36** (2013.01); **C10J 3/44** (2013.01); **C10J 3/74** (2013.01); **C10J 2300/092** (2013.01); **C10J 2300/093** (2013.01); **C10J 2300/0943** (2013.01); **C10J 2300/0946** (2013.01); **C10J 2300/0956** (2013.01)

Citation (search report)

- [X] FR 964798 A 19500824
- [X] FR 664136 A 19290829
- [X] GB 575048 A 19460131 - GEORGE STEWART ROLAND HAMILTON
- [X] GB 565026 A 19441024 - GEORGE STEWART ROLAND HAMILTON
- [X] FR 899574 A 19450605

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EP0693545A1

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