

Title (en)

The method of gas production from at least partially gasifiable solid material and the device for implementation of this method

Title (de)

Verfahren und Vorrichtung zur Vergasung von partiell vergasbaren Feststoffen

Title (fr)

Procédé et dispositif pour gazéifier de la matière solide

Publication

EP 2062961 A1 20090527 (EN)

Application

EP 07466024 A 20071123

Priority

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Abstract (en)

Into the reaction zone (2), which is located inside the reactor (1), the inlet (3) of at least partially gasifiable solid material, at least one inlet (4) of the gasification agent, the outlet (5) of the produced gas and the outlet (6) of the non-gasified residue are introduced. A part of the reaction zone (2) is the space (7) for forming the fixed bed (8) of at least partially gasifiable solid material, to which the inlet (3) of at least partially gasifiable solid material is introduced. The reactor (1) involves at least one grid (10) which is located between the reaction zone (2) and the outlet (6) of the non-gasified residue. With advantage, an inlet of gasifiable liquid may be introduced into the reaction zone (2). An equipment for preheating of at least partially gasifiable material may be located in the inlet (3) of at least partially gasifiable solid material. To preheat the gasification agent, the equipment (13) for preheating the gasification agent may be located in the inlet (4) of the gasification agent. The equipment for preheating of gasified liquid may be located in the inlet of gasified liquid. With benefit, the reaction zone (2) is surrounded by the thermal insulation (15), which is resistant to the temperature of 1600° C.

IPC 8 full level

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CPC (source: EP)

C10J 3/20 (2013.01); **C10J 3/30** (2013.01); **C10J 2200/09** (2013.01); **C10J 2200/152** (2013.01); **C10J 2200/158** (2013.01); **C10J 2300/0916** (2013.01); **C10J 2300/0946** (2013.01); **C10J 2300/0956** (2013.01); **C10J 2300/0989** (2013.01); **C10J 2300/1693** (2013.01); **C10J 2300/1846** (2013.01); **C10J 2300/1861** (2013.01); **C10J 2300/1869** (2013.01)

Citation (applicant)

- CZ 285142 B6 19990512 - SKODA TS S R O [CZ]
- US 5026204 A 19910625 - KULP JACK H [US], et al
- WO 9935214 A1 19990715 - GREENPOWER ENGINEERING & TECHN [CH], et al
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- US 2004107638 A1 20040610 - GRAHAM ROBERT G [US], et al
- US 6120567 A 20000919 - CORDELL HENRY L [US], et al

Citation (search report)

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- [A] WO 9935214 A1 19990715 - GREENPOWER ENGINEERING & TECHN [CH], et al
- [A] US 2004107638 A1 20040610 - GRAHAM ROBERT G [US], et al
- [A] US 6120567 A 20000919 - CORDELL HENRY L [US], et al
- [A] WO 2006056053 A1 20060601 - DAVISON KENNETH [CA]

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