

Title (en)

Co-current gasifier

Title (de)

Gleichstromvergaser

Title (fr)

Gazogène à co-courant

Publication

EP 2883941 A1 20150617 (EN)

Application

EP 13197026 A 20131212

Priority

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Abstract (en)

This invention is concerned with an improved construction of a co-current gasifier, wherein a guide (11) is placed in the lower part of fuel silo (3) of fuel tank (1) before burning air jets (7) located in the burning chamber (2), which enables to create free space for burning air in the middle of burning zone of the burning chamber, thereby intensifying the reactions of generating gas. At the same time, the guide (11) enables to extend the burning zone of the gasifier to the pyrolysis zone, resulting in the ignition of tar created as pyrolysis by-product. As a result, the tar content of generated gas output by the gasifier decreases.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- WO 2008068596 A2 20080612 - RIVOIRA S P A [IT], et al
- WO 2008145814 A1 20081204 - T MI EK KAASU [FI], et al
- DE 102005028377 A1 20070104 - JOOS BERND [DE]

Citation (search report)

- [XYI] NL 8200417 A 19830901 - TAB B V
- [Y] WO 2013098525 A1 20130704 - COGEBIO [FR]
- [A] US 2011023363 A1 20110203 - MASON JAMES MATTHEW [US]
- [A] DE 202010013745 U1 20101230 - PYROX GMBH [DE]

Cited by

ITUB20160148A1; CN111253981A

Designated contracting state (EPC)

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