

Title (en)
A CYCLONE GASIFIER

Title (de)
ZYKLONVERGASER

Title (fr)
CYCLONE GAZÉIFICATEUR

Publication
EP 3078727 A1 20161012 (EN)

Application
EP 15163203 A 20150410

Priority
EP 15163203 A 20150410

Abstract (en)
The present inventive concept relates to a cyclone gasifier comprising: a gasification chamber, a first and a second inlet, and a syngas exit pipe arranged at least partly inside the gasification chamber. The first inlet is arranged and configured to inject a first mixture of oxidant and particulate fuel into the gasification chamber such that a first swirling flow of the first mixture is established and allowed to propagate through at least a part of the gasification chamber. The second inlet is arranged and configured to inject a second mixture of oxidant and particulate fuel into the gasification chamber such that a second swirling flow of the second mixture is established and allowed to propagate through at least a part of the gasification chamber. The second swirling flow is at least partly offset in its propagation compared to the first swirling flow.

IPC 8 full level
C10J 3/48 (2006.01)

CPC (source: EP)
C10J 3/487 (2013.01); **C10K 1/026** (2013.01); **C10K 1/18** (2013.01); **C10J 2200/152** (2013.01); **C10J 2200/39** (2013.01); **C10J 2300/1884** (2013.01)

Citation (applicant)
CN 101781582 A 20100721 - HARBIN INST OF TECHNOLOGY

Citation (search report)
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• [X] WO 2012137191 A1 20121011 - PT TOTAL SINERGY INTERNAT [ID], et al
• [X] US 2011076116 A1 20110331 - LIU KE [US], et al
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• [A] SHAOZENG SUN ET AL: "Gasification of rice husk in a cyclone gasifier", KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol. 26, no. 2, 26 June 2009 (2009-06-26), pages 528 - 533, XP055193832, ISSN: 0256-1115, DOI: 10.1007/s11814-009-0090-1

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Designated contracting state (EPC)
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Designated extension state (EPC)
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