

Title (en)  
BURNER FOR THE GASIFICATION OF FINE GRAINED AND PULVERULENT SOLID FUELS

Publication  
**EP 0367966 B1 19921209 (DE)**

Application  
**EP 89117730 A 19890926**

Priority  
DE 3837586 A 19881105

Abstract (en)  
[origin: EP0367966A1] Gasification burner for an installation for the gasification of fine-grain to powdery solid fuels, which has a gasification reactor, having a first central guide channel (1) for primary oxidising agents, a surrounding annular fuel channel (2) for the fuels which are introduced with a carrier gas, a second annular guide channel (3), surrounding the annular fuel channel (2), for secondary oxidising agent, and with cooling channels (4) and, optionally, at least one annular moderator-gas channel (5). A plurality of gasification burners send their fuel/reactant jet into the gasification reactor. The fuel/reactant jets form, in the gasification reactor, a high- temperature primary reaction zone. A crude gas is drawn off from the gasification reactor. A tubular injection lance (6), which is supplied with oxidising agent, is arranged in the first supply channel. A flow of fine dust and carrier gas can be injected by the injection lance (6) into the core of the fuel/reactant jet. <IMAGE>

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**F23D 1/00**; **F23J 15/00**

IPC 8 full level  
**C10J 3/48** (2006.01); **F23D 1/00** (2006.01); **F23J 15/00** (2006.01)

CPC (source: EP)  
**C10J 3/506** (2013.01); **C10J 2300/1223** (2013.01)

Citation (examination)  
US 4480559 A 19841106 - BLASKOWSKI HENRY J [US]

Cited by  
AU2011310704B2; DE102006060867A1; EP0437698A1; DE102006060867B4; WO2012041808A1; US8545726B2; US10066832B2

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