

Title (en)
PULVERIZED COAL PRESSURIZED GASIFIER SYSTEM

Title (de)
KOHLEPULVER-DRUCKVERGASERSYSTEM

Title (fr)
SYSTEME GAZEIFIEUR PRESSURISE A CHARBON PULVERISE

Publication
EP 1456328 A1 20040915 (EN)

Application
EP 02793924 A 20021112

Priority
• US 0236369 W 20021112
• US 34850801 P 20011112
• US 33545001 P 20011204

Abstract (en)
[origin: US2003089038A1] A gasifier system includes a gasifier chamber, a plurality of nozzles or burners injecting and combusting a mixture including coal and oxygen within the gasifier chamber, and an ash bed disposed proximate a bottom of the gasifier chamber. Concurrent flow is generated within the gasifier such that gas and bi-products generated by the combustion of the mixture flow through the ash bed. The ash bed serves as a filter and reducing volume for the trace carbon not gasified during the combustion process. The hot gases exit the gasifier and enter a gas cooler and then a hot gas filter. Ash is unloaded from the gasifier chamber and is transferred into a quench tank, where ash settles and is removed to atmospheric conditions by a progressive pitched dewatering screw press. The dewatering screw press also serves as a seal to prevent excessive water escaping from the high pressure of gasifier operation.

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C10J 3/20

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
See references of WO 03042334A1

Cited by
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