

Title (en)
GASOGEN FOR THE PRODUCTION OF GASES FOR EXTERNAL COMBUSTION IN BOILERS WHICH USE SAID GASES AND THE PROCESS TO IMPROVE THE TREATMENT OF BIOMASS BY MEANS OF THE GASOGEN

Title (de)
GASOGEN FÜR DIE PRODUKTION VON GASEN FÜR EXTERNE VERBRENNUNG IN BOILERN, DIE DIE GASE VERWENDEN, UND DAS VERFAHREN ZUR VERBESSERUNG DER BEHANDLUNG VON BIOMASSE MITTELS DES GASOGENS

Title (fr)
GAZOGÈNE POUR LA PRODUCTION DE GAZ POUR COMBUSTION EXTERNE DANS DES CHAUDIÈRES, QUI UTILISENT CES GAZ ET LE PROCÉDÉ POUR AMÉLIORER LE TRAITEMENT DE LA BIOMASSE AU MOYEN DU GAZOGÈNE

Publication
EP 2657321 A1 20131030 (EN)

Application
EP 12002891 A 20120424

Priority
EP 12002891 A 20120424

Abstract (en)
Gasogen to produce combustion gases for external combustion in boilers, furnaces internal combustion engines and other devices or apparatuses which use said gases, being the gasogen of the fixed upstream type with refrigerated walls where the biomass or material to be gasified is subjected to a series of processes such as drying, pyrolysis, reduction of the carbon dioxide generated into carbon monoxide and burning of the residual carbon. The walls of the gasogen are composed of a number of cooling pipes with heat dissipation membranes, the gasogen includes an exocentric rotating grid for the extraction of ashes, at least one peripheral and one central blower with the corresponding sets of steam and/or inert gases injection nozzles to ease the extraction of ashes, at least one gas exhaust gate which blocks the pipe connected to the combustion chamber and an ancillary funnel with an exhaust valve for the paralyzes gases. The treatment of the biomass is improved adding selected compounds between calcium hydroxide, calcium carbonate and/or double calcium and magnesium carbonate in variable proportions according to the type of fuel that enters the gasogen

IPC 8 full level
C10J 3/42 (2006.01); **C10J 3/76** (2006.01); **F23G 5/26** (2006.01)

CPC (source: EP)
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Citation (search report)

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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