

Title (en)

PROCESS OF OPERATING AN ULTRA-SMALL-SCALE COMBUSTION PLANT FOR BIOGENIC SOLID FUELS AND ULTRA-SMALL-SCALE COMBUSTION PLANT

Title (de)

VERFAHREN ZUM BETREIBEN EINER KLEINSTFEUERUNGSANLAGE FÜR BIOGENE FESTBRENNSTOFFE UND KLEINSTFEUERUNGSANLAGE

Title (fr)

PROCÉDÉ D'OPÉRATION D'UNE MICRO-CHAUFFERIE À BIOCOMBUSTIBLES SOLIDES ET MICRO-CHAUFFERIE À BIOCOMBUSTIBLES SOLIDES

Publication

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Application

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Abstract (en)

[origin: WO2015120961A1] The invention relates to a combustion apparatus loaded automatically with solid fuels, in particular for loading with biogenic solid fuels for generating heat and/or product gases, wherein the fuel is supplied via a loading device (1) to a cylindrical reactor containing a batch of fuel, over which the solid fuel is converted into gaseous reaction products on account of the effect of temperature and the supply of primary air by pyrolysis and gasification processes, said reaction products being conducted downwards through a length of pipe with devices to generate turbulence (8) and being oxidized as completely as possible in a further cylindrical reactor (7) with a greater cross section than (4) by the supply of preheated secondary air (3). A vertical, electrically operated split tube furnace (5) serves as the heat source for achieving required ignition temperatures and the formation of a bed of embers.

IPC 8 full level

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