

Title (en)

BIOMASS MICRON FUEL HIGH-TEMPERATURE CLEAN COMBUSTION METHOD BASED ON ADIABATIC COMBUSTION CONDITIONS

Title (de)

HOCHTEMPERATUR-VERBRENNUNGSVERFAHREN ZUR SAUBEREN VERBRENNUNG VON BIOMASSE-MIKRON-BRENNSTOFF AUF DER BASIS VON ADIABATISCHEN VERBRENNUNGSBEDINGUNGEN

Title (fr)

PROCÉDÉ DE COMBUSTION NETTE À HAUTE TEMPÉRATURE DE BMF (BIOMASS MICRON FUEL) BASÉ SUR DES CONDITIONS DE COMBUSTION ADIABATIQUE

Publication

**EP 3222913 B1 20210526 (EN)**

Application

**EP 14906429 A 20141217**

Priority

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- CN 2014094005 W 20141217

Abstract (en)

[origin: EP3222913A1] Provided is a biomass micron fuel high-temperature cleaning and combustion method based on adiabatic combustion conditions, comprising: (a) in entirely sealed form, a biomass micron fuel is filled, handled, and transported, and delivered via a pipe to an industrial furnace; (b) the biomass micron fuel is premixed with air to form a dust cloud in fluid form; (c) the premixed fluid dust cloud is sprayed, via a fuel nozzle, into the adiabatic combustion chamber (1) arranged in the furnace; the energy of the biomass fuel having a relatively low energy density is accumulated in the closed heat storage space opposite the combustion chamber, and the closed storage space performs ultra-high-temperature combustion; (d) during the process of combustion, steam is added to the adiabatic combustion chamber (1).

IPC 8 full level

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