

Title (en)

Biomass fuelled power production system

Title (de)

Biomassen-kraftstoffbetriebenes Stromerzeugungssystem

Title (fr)

Système de production d'énergie à combustible de biomasse

Publication

**EP 2657469 A1 20131030 (EN)**

Application

**EP 12165524 A 20120425**

Priority

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Abstract (en)

A biomass power production system (1) comprising: a fuel preparation part (2) for receiving biomass fuel in solid form comprising: a drying apparatus (5) using hot air for reducing moisture in the biomass fuel, and a grinding apparatus (6) for pulverizing or grinding the biomass fuel into a pulverized biomass fuel, and an energy production part (3) comprising: a pulverized fired boiler (15) for receiving the pulverized biomass and generating thermal energy by burning the pulverized biomass where the thermal energy is in the form of pressurized steam, a steam turbine for converting the thermal energy of the pressurized steam into mechanical energy and where the steam turbine is adapted to drive an electrical generator (19) to convert the mechanical energy into electrical energy, a flue gas cooler (20) adapted for receiving an exhaust gas from the boiler and extracting thermal energy from the exhaust gas for reducing the temperature of the exhaust gas, wherein the thermal energy generated in energy production part is converted into thermal energy for heating up the hot air of the drying apparatus (5).

IPC 8 full level

**F01K 17/06** (2006.01)

CPC (source: EP)

**F01K 17/06** (2013.01)

Citation (search report)

- [I] US 2012006025 A1 20120112 - KOYAMA YOSHINORI [JP], et al
- [I] US 3095699 A 19630702 - BAVER CLYDE B
- [A] WO 2011145917 A1 20111124 - GREEN ENERGY AND TECHNOLOGY SDN BHD [MY], et al
- [A] DE 202011001453 U1 20110505 - RIBEGLA S A [LU]
- [A] US 2009217585 A1 20090903 - RAMAN PATTABHI K [US], et al
- [A] US 2011248513 A1 20111013 - PAVONE DOMENICO [DE], et al

Cited by

CN113970114A; CN107062348A; CN107014221A; CN110925035A; CN112856824A; CN114704848A; EP4296509A1

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Designated extension state (EPC)

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