

Title (en)

MACROAPPARATUS FOR THE PRODUCTION AND TREATMENT OF GAS

Title (de)

MAKROGERÄT ZUR HERSTELLUNG UND BEHANDLUNG VON GAS

Title (fr)

MACROAPPAREIL POUR LA PRODUCTION ET LE TRAITEMENT DE GAZ

Publication

EP 2643435 A2 20131002 (EN)

Application

EP 11797134 A 20111114

Priority

- IT MI20102156 A 20101123
- IB 2011055064 W 20111114

Abstract (en)

[origin: WO2012069952A2] The invention relates to a plant 100 and a method for the production of energy from biomass BM. In the plant, a macroapparatus 10 comprises: a gasifier 12, a dedusting unit 14; an evaporative cooler 20; a scrubber 30; and a purifier 60. The cooler and the scrubber each comprise means for spraying an aqueous mixture MA into the gas G, a basin for storing a quantity of condensed aqueous mixture, a recirculation circuit for removing the aqueous mixture from the basin and supplying it to the spraying means, and a bleed for removing the condensed pollutants and conveying them to the gasifier 12. The scrubber also comprises a heat exchanger along the recirculation circuit. The purifier comprises: means for spraying the aqueous mixture removed from the cooler basin into an oxygenated gas A; means for heating the wet oxygenated gas AU above 200°C; and a catalytic oxidizer 68 for promoting oxidation of the pollutants suspended in the wet oxygenated gas AU.

IPC 8 full level

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CPC (source: EP)

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DOCDB simple family (publication)

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