

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

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Application
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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.

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