

Title (en)

DEVICE, USE THEREOF, METHOD AND SYSTEM FOR CONTINUOUSLY CONVERTING BIOMASS

Title (de)

VORRICHTUNG, DEREN VERWENDUNG, VERFAHREN UND SYSTEM ZUR KONTINUIERLICHEN UMWANDLUNG VON BIOMASSE

Title (fr)

DISPOSITIF, SON UTILISATION, PROCÉDÉ ET SYSTÈME POUR LA TRANSFORMATION EN CONTINU D'UNE BIOMASSE

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Application

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Abstract (en)

[origin: CA2760218A1] The invention relates to a device (100; 302), the use thereof, a method, and a system (300) for continually converting biomass (102; 304). The device (100; 302) comprises the following: an infeed area (104) for receiving a moving bed from the biomass (102; 304), particularly wood, having an upper segment (140) for drying, a middle segment (142), a flame zone, for degassing, and a lower segment (146), a smoldering zone, for carbonizing the biomass (102; 304) into a solid converted product (158; 306), particularly charcoal; a grate (110) supporting the moving bed and permeable downward for the solid converted product (158; 306). A collection tank (136) for collecting the solid converted product (158; 306) is disposed below the grate (110) and can be coupled to the infeed area (104), gas-tight to the environment, and comprising a wall area having a cooling device (160). The system (300) comprises the device (100; 302), a biogas plant (314) and/or a combined heat and power plant (310), wherein a liquid converted product (156) from the converting of biomass (102; 304), particularly pyroligneous acid or acetic acid, can be fed to the biogas plant (314), and/or the solid converted product (158) from the converting of biomass (102; 304), particularly charcoal, can be fed to a combined heat and power plant (310).

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