Title (en)

HIGH-TEMPERATURE FURNACE AND METHOD FOR CONVERTING ORGANIC MATERIALS INTO SYNTHESIS GAS

Title (de)

HOCHTEMPERATUROFEN UND VERFAHREN ZUR UMSETZUNG ORGANISCHER MATERIALIEN IN SYNTHESEGAS

Title (fr)

FOUR À HAUTE TEMPÉRATURE ET PROCÉDÉ POUR TRANSFORMER DES MATIÈRES ORGANIQUES EN GAZ DE SYNTHÈSE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2011044943A1] The invention relates to a high-temperature device (10) for converting a starting material (M), comprising a feed device (30) and a rotationally symmetric furnace pipe (20) having a rotational axis (R). The feed device (30) conducts the starting material (M) into an inner chamber (I) of the furnace pipe (20), and conveying elements (22) are arranged in the inner chamber (I) of the furnace pipe (20) in order to convey the starting material (M) in the direction of an outlet side (A) of the furnace pipe (20). The device (10) comprises an elongated resistance heater (23), which protrudes into the inside (I) of the furnace pipe (20) and which comprises at least one hot zone (H1) and one less hot zone (H2), wherein the hot zone (H1) follows the less hot zone (H2) as viewed from the inlet side (E), and wherein the resistance heater (23) is designed in such a way that a temperature in the inner chamber (I) of the furnace pipe (20) in the range of the hot zone (H1) that is above 1200°C can be achieved.

IPC 8 full level

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