

Title (en)

PROCESS AND APPARATUS FOR PRODUCING BIOCARBON

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON BIOKOHLENSTOFF

Title (fr)

PROCÉDÉ ET APPAREIL DE PRODUCTION DE BIOCARBONE

Publication

**EP 2488604 A1 20120822 (EN)**

Application

**EP 10823103 A 20101013**

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Abstract (en)

[origin: WO2011045473A1] The invention relates to a process and apparatus for producing a biocarbon product from bio-based raw stock. According to the invention the bio-based raw stock is sorted by removing in the raw stock the fraction (19) that is undesired in terms of the production of biocarbon from the desired fraction (18) of the raw stock which is used for the production of biocarbon, the desired fraction (18) of the raw stock is fed to a fluidized-bed reactor (1), the undesired fraction (19) of the raw stock is fed to a combustion boiler (2) disposed in connection with the fluidized-bed reactor in order to produce energy fractions, a heat transfer material (6) to be used in the fluidized-bed reactor is warmed up in the combustion boiler (2) and the warmedup heat transfer material (6) is led to the fluidized- bed reactor (1), the bio-based raw stock (18) is heated in the fluidized-bed reactor in oxygen-free conditions to a temperature of 220 to 350 °C in the presence of the heat transfer material (6) in order to form a solid biocarbon product (9,10), and the heat transfer material (7) is circulated from the fluidized-bed reactor (1) to the combustion boiler (2) in order to warm up the heat transfer material.

IPC 8 full level

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