

Title (en)
PROCESS FOR THE PYROLYSIS OF ORGANIC FEEDSTOCK

Title (de)
VERFAHREN ZUR PYROLYSE VON ORGANISCHEM EINSATZMATERIAL

Title (fr)
PROCÉDÉ DE PYROLYSE D'UNE MATIÈRE D'ALIMENTATION ORGANIQUE

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Abstract (en)
[origin: WO2012083979A1] Process for the pyrolysis of hydrous organic feedstock, more particularly of organic wastes and biomass, featuring the following process steps: - a circulated inert heat-transfer medium (8) in piece form is heated in a preheater (1), - the heated heat-transfer medium (8) is introduced simultaneously with the hydrous feedstock into a pyrolysis reactor (2), - in the pyrolysis reactor (2) the feedstock is pyrolyzed, optionally with further addition of steam, - the mixture of pyrolysis gas and steam that is formed in the pyrolysis reactor (2) is reformed in a reforming reactor (3) to give a product gas having a high hydrogen content (first end product), - the pyrolysis coke (2) produced in the pyrolysis reactor is discharged from the pyrolysis reactor (2) together with the heat-transfer medium (8) and is separated off from the heat-transfer medium, and - the heat-transfer medium (8) separated off is recycled into the preheater (1). In order, in this process, to reduce the height of the plant construction and to avoid disruptively high temperatures in the region of the heat-transfer medium circuit, the invention proposes that the reforming reactor (3) is arranged separately from the heat-transfer medium circuit and is heated separately from said circuit.

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