

Title (en)
INSTALLATION AND METHOD FOR PRODUCING ENERGY USING PYROLYSIS

Title (de)
ANLAGE UND VERFAHREN ZUR ENERGIEGEWINNUNG DURCH PYROLYSE

Title (fr)
INSTALLATION ET PROCEDE POUR PRODUIRE DE L'ENERGIE PAR PYROLYSE

Publication
EP 1377649 B1 20060621 (DE)

Application
EP 02708128 A 20020411

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Abstract (en)
[origin: WO02083815A1] The aim of the invention is to achieve a good energy balance, in particular in small energy-production installations, in which combustibles containing carbon are exploited by means of pyrolysis. To achieve this, the installation comprises: a) a reaction section provided with at least one pyrolysis zone for exploiting the combustible, b) at least one combustion device, used to burn the gas obtained by pyrolysis to form flue gas, c) supply means for supplying the gas from the pyrolysis zone to the combustion device, d) conduit means, in which the burning gas and the resulting flue gas can be conducted from the combustion device to a gas outlet point, e) a thermal utilisation device, which is used to convert at least one portion of the thermal energy that is released by the combustion process into a useful form of energy that can be output by the installation, using a heat exchanger, whereby f) the burning gas and/or the resulting flue gas is guided past the pyrolysis zone (8) and at the same time past at least one section of the heat exchanger (28a), in relation to the direction of flow, by means of one section of the conduit means (26), and whereby the heat exchanger (28a) absorbs the thermal energy of the gases in a first area (40) and in a second area (41) releases said energy into a medium of the thermal utilisation device.

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Cited by
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