

Title (en)
CATALYTIC REACTOR

Title (de)
KATALYTISCHER REAKTOR

Title (fr)
REACTEUR CATALYTIQUE

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Application
EP 04713003 A 20040220

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Abstract (en)
[origin: WO2004074181A2] The invention relates to a catalytic reactor (1) with a compact construction, whose assembly prevents the biomaterial present in said reactor from fusing together and causing a malfunction. The reactor is characterised in that it is arranged vertically and consists of a reactor tube (2) and an internal tube (5). This forms an annular gap (7), across which the biomaterial to be treated is conducted from a mixing vat (3) to a conversion coal collector (4). The biomaterial is catalytically decomposed in the mixing vat (3) and the reactor tube (2) as a result of the supplied heat. The gas that forms is evacuated by a gas vent (10). The residual conversion coal is collected in the conversion coal collector (4) and is partially returned to the mixing vat (3) via a screw conveyor (6) in the internal tube (5).

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