

Title (en)

APPARATUS IN THE FORM OF A THERMOLYSIS REACTOR AND METHOD FOR OPERATING THE SAME IN A SYSTEM FOR THE THERMAL DECOMPOSITION OF WASTE PRODUCTS AND WASTE MATERIALS

Title (de)

VORRICHTUNG IN FORM EINES THERMOLYSEREAKTORS UND VERFAHREN ZUM BETREIBEN EINES SOLCHEN IN EINER ANORDNUNG ZUR THERMISCHEN ZERSETZUNG VON ABPRODUKTEN UND ABFÄLLEN

Title (fr)

DISPOSITIF EN FORME DE RÉACTEUR DE THERMOLYSE ET PROCÉDÉ POUR FAIRE FONCTIONNER UN TEL DISPOSITIF POUR LA DÉCOMPOSITION THERMIQUE DE DÉCHETS

Publication

EP 2393903 B1 20170906 (DE)

Application

EP 10707201 A 20100127

Priority

- DE 2010000093 W 20100127
- DE 102009007768 A 20090205

Abstract (en)

[origin: WO2010088878A2] The invention refers to the fields of waste and energy management and mechanical and plant engineering, and relates to a thermolysis reactor and to a method for the thermal recycling of waste products and waste materials according to the type described in the claims. The problem of the invention to provide a thermolysis reactor and a method for operating the same in a system for the thermal decomposition of waste products and waste materials, which organize a movement of the goods in such a manner that a stable temperature pattern is ensured, continuous and stable temperature-guided control of the flow of the method is enabled, and a consistent gas quality is ensured with a long residence time, is solved in that the thermolysis reactor comprises an outer jacket (5) and an inner jacket (3), which form a double jacket, the inner jacket (3) being surrounded by the outer jacket (5) so that a gap (6) exists between the inner jacket (3) and the outer jacket (5), the double jacket having an inlet (2) and an outlet (12), and the inner jacket (3) surrounding an inner space (1) that is delimited at the ends by covers (4), characterized in that the gap (6) is closed with respect to the surroundings at the ends of the double jacket formed by the inner jacket (3) and outer jacket (5) and the covers (4) support a shaft (13), wherein a heat transfer medium is present in the gap (6) and the shaft (13), and the shaft (13) is supported centrally in the covers (4) and carries a delivery tool (11).

IPC 8 full level

C10B 47/44 (2006.01); **C10B 47/26** (2006.01); **C10B 51/00** (2006.01); **C10B 57/18** (2006.01); **C10J 3/64** (2006.01)

CPC (source: EP)

C10B 47/26 (2013.01); **C10B 47/44** (2013.01); **C10B 49/04** (2013.01); **C10B 51/00** (2013.01); **C10B 57/18** (2013.01); **C10J 3/02** (2013.01); **C10J 3/64** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

DE 202009010830 U1 20100211; DE 102009007768 A1 20100826; DE 102009007768 B4 20150716; EP 2393903 A2 20111214; EP 2393903 B1 20170906; WO 2010088878 A2 20100812; WO 2010088878 A3 20101125

DOCDB simple family (application)

DE 202009010830 U 20090205; DE 102009007768 A 20090205; DE 2010000093 W 20100127; EP 10707201 A 20100127