

Title (en)

DEVICE IN THE FORM OF A ROTATING THERMOLYSIS REACTOR AND METHOD FOR OPERATING A REACTOR OF THIS KIND IN AN ARRANGEMENT FOR THE THERMAL DECOMPOSITION OF BY-PRODUCTS AND WASTE

Title (de)

VORRICHTUNG IN FORM EINES THERMOLYSE-ROTATIONS-REAKTORS UND VERFAHREN ZUM BETREIBEN EINES SOLCHEN IN EINER ANORDNUNG ZUR THERMISCHEN ZERSETZUNG VON ABPRODUKTEN UND ABFÄLLEN

Title (fr)

DISPOSITIF SOUS FORME D'UN RÉACTEUR DE THERMOLYSE ROTATIF, ET PROCÉDÉ PERMETTANT DE FAIRE FONCTIONNER LEDIT RÉACTEUR DANS UN SYSTÈME DE DÉCOMPOSITION THERMIQUE DE RÉSIDUS ET DE DÉCHETS

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Application

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Abstract (en)

[origin: CA2893790A1] The invention relates to a device in the form of a rotating thermolysis reactor in accordance with the type of the patent claims and a method for operating a reactor of this kind in an arrangement for the thermal decomposition of by-products and waste. The problem addressed by the present invention is to specify a device in the form of a rotating thermolysis reactor which organizes a forced transport of the material to be treated in the reactor, does not destroy the existing firebed of the thermolytic reaction and thereby prevents blockages in the reactor and slag and separate hot spots, to guarantee a stable and uniform control of the thermolytic process. The problem is solved in that the reactor comprises a tubular outer jacket (1) with covers (2) closing its ends, an interior chamber (3), a shaft (4) mounted centrally in the covers (2), feed tools (6) and discharge tools (7) which are placed at the start or the end of the shaft (4) respectively inside the interior chamber (3), wherein helical coil runners (5) are fixed to the shaft (4) and has gasification agents are applied to the material arranged via gasification means shafts (11) in the lower section of the tubular outer jacket (1).

IPC 8 full level

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