

Title (en)

REACTOR AND METHOD FOR GASIFYING AND/OR CLEANING A STARTING MATERIAL

Title (de)

REAKTOR UND VERFAHREN ZUM VERGASEN UND/ODER REINIGEN EINES AUSGANGSMATERIALS

Title (fr)

RÉACTEUR ET PROCÉDÉ POUR GASÉIFIER ET/OU NETTOYER UN MATÉRIAU DE BASE

Publication

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Application

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Abstract (en)

[origin: CA2870576A1] The invention relates to a reactor for gasifying and/or cleaning a starting material (12), especially for depolymerizing plastic material (12), which reactor comprises: a reactor vessel (14) for receiving the starting material (12), especially the plastic material (12); a metal bath (26) which is arranged in the reactor vessel (14) and includes a liquid metallic material having a metal bath melting temperature (TSchmelz); a plurality of filling elements (25) which are at least partially arranged in the metal bath (26); and a heater, especially an induction heater (18) for heating the starting material (12) in the reactor vessel (14). According to the invention, a metal bath intermediate storage device (52) is provided and is connected to the reactor vessel (14) and is designed to remove at least part of the metal bath (26) from the reactor vessel (14) and to return the metal bath (26) to the reactor vessel (14), and comprises a delivery device (64) for delivering the metal bath (26), the delivery device (64) having a pressure increasing unit (60) by means of which the metal bath (26) can be delivered by applying the gas pressure (p).

IPC 8 full level

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