

Title (en)  
REACTOR AND METHOD FOR THE AT LEAST PARTIAL DECOMPOSITION, IN PARTICULAR DEPOLYMERIZATION, AND/OR PURIFICATION OF PLASTIC MATERIAL

Title (de)  
REAKTOR UND VERFAHREN ZUM ZUMINDEST TEILWEISEN ZERSETZEN, INSBESONDERE DEPOLYMERISIEREN, UND/ODER REINIGEN VON KUNSTSTOFFMATERIAL

Title (fr)  
RÉACTEUR ET PROCÉDÉ PERMETTANT DE DÉCOMPOSER AU MOINS PARTIELLEMENT, EN PARTICULIER DE DÉPOLYMÉRISER ET/OU DE PURIFIER UNE MATIÈRE PLASTIQUE

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Application  
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Abstract (en)  
[origin: CA2816477A1] The invention relates to a reactor for gasifying and/or purifying, in particular depolymerizing, plastic material (12), comprising a reactor vessel (14) for holding the plastic material (12) and a heater (18) for heating the plastic material (12) in the reactor vessel (14), the reactor vessel being at least partially filled with a metal bath (26). According to the invention, a deceleration device (24, 32) is provided in an interior (22) of the reactor vessel (14) to decelerate a flow of liquefied plastic material (12) in the reactor vessel (14), said deceleration device (24, 32) having a plurality of elements (25) that are movably arranged in the interior (22).

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See references of WO 2012059091A1

Citation (examination)  
• US 5435982 A 19950725 - WILKINSON MARK A [US]  
• "Kirk-Othmer Encyclopedia of Chemical Technology", 12 March 2010, WILEY, USA, ISBN: 978-0-471-23896-6, article MARK J. CHAGNON: "BISMUTH AND BISMUTH ALLOYS", pages: 1 - 14, XP055342422

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