

Title (en)
GASIFICATION APPARATUS

Title (de)
GASIFIZIERUNGSVORRICHTUNG

Title (fr)
APPAREIL DE GAZÉIFICATION

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Abstract (en)
[origin: WO2019111073A1] The present invention concerns a gasification apparatus (1) for the separation of an inert material from mixtures comprising said material and one or more polymeric/organic materials, said apparatus (1) comprising: a) a casing body (2), which extends in a tubular manner along a longitudinal axis (L) between a proximal portion (2') and a distal portion (2''); b) a treatment body (4), contained at least in part in the casing body (2) and which delimits a primary chamber (6) to gasify - in the absence of oxygen - the polymeric/organic material in synthetic gas; the treatment body (4) being rotatable around an axis of rotation (RI) and comprising first auger means (8) protruding into the primary chamber (6) to move a first mixture and the inert material in the distal direction (S1); c) a burner (10), arranged close to the casing body (2), in thermal contact with the primary chamber (6); d) a flame propagation body (12), which extends distally from the burner (10), inside the treatment body (4) to isolate the flame from the primary chamber (6); e) conveyance means, fluidically connected to draw (S2) the synthesis gas from the primary chamber (6) and to feed the burner flame (10) with said gas.

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