

Title (en)
A GASIFIER COMPRISING VERTICALLY SUCCESSIVE PROCESSING REGIONS

Title (de)
VERGASER MIT VERTIKAL SUKZESSIONEN VERARBEITUNGSBEREICHEN

Title (fr)
GAZÉIFICATEUR COMPORTANT DES RÉGIONS DE TRAITEMENT SE SUCCÉDANT VERTICALEMENT

Publication
EP 2029702 A4 20100825 (EN)

Application
EP 07784333 A 20070605

Priority
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• CA 2006000881 W 20060605

Abstract (en)
[origin: US2007289216A1] The present invention provides a vertically oriented gasifier comprising vertically successive processing regions for conversion of carbonaceous feedstock into gas. The gasifier comprises of: one or more processing chambers with two or more vertically successive processing regions being distributed within said one or more processing chambers, within each one of which a respective process selected from the group consisting of drying, volatilization and carbon conversion is at least partially favoured, The processing regions are identified by temperature ranges respectively enabling each said respective process. One or more additive input elements are associated with the processing regions for inputting additives to promote each said at least partially favoured process therein. In addition, the gasifier comprises one or more material displacement control modules adapted to control a vertical movement of the feedstock through said processing regions to enhance each said at least partially favoured process, one or more feedstock inputs located near a first of said processing regions and one or more gas outputs and one or more residue outputs.

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