

Title (en)
IMPROVEMENTS IN WASTE PROCESSING

Title (de)
VERBESSERTER ABFALLVERARBEITUNG

Title (fr)
AMÉLIORATIONS DANS LE TRAITEMENT DES DÉCHETS

Publication
EP 2986914 B1 20171213 (EN)

Application
EP 14717839 A 20140414

Priority
• GB 201306943 A 20130417
• GB 2014051153 W 20140414

Abstract (en)
[origin: GB2513143A] An apparatus for processing waste having an organic content, the apparatus comprises a first processing chamber 10 that receives and heats the waste material in a reduced or substantially zero oxygen atmosphere to produce syngas and carbonaceous material. A second processing chamber 26 receives and heats carbonaceous material in a reduced oxygen atmosphere to gasify it to produce carbon monoxide. A controller 16 controls the oxygen content within the second chamber. A thermal treatment chamber 20 having a syngas inlet receives syngas from the first chamber and the carbon monoxide from the second chamber, and the thermal treatment chamber heats the gas therein to break down any volatile organic compounds or long chain hydrocarbons therein. Hot gas from a heat source 12, 28 may flow to the processing chambers to heat the waste material. A conduit (42, fig 5) may communicate recirculated hot gas from the thermal treatment chamber to the first chamber. An outlet conduit 24 of the thermal treatment chamber may lead to a waste heat boiler or syngas engine. The first chamber may be a rotating or tilting oven and the second chamber may be smaller than the first. Both chambers may be batch processing chambers.

IPC 8 full level
F23G 5/027 (2006.01); **F23G 7/10** (2006.01)

CPC (source: EP GB)
F23G 5/027 (2013.01 - EP GB); **F23G 7/10** (2013.01 - EP GB); **F23G 2201/30** (2013.01 - EP); **F23G 2201/40** (2013.01 - EP); **F23G 2202/101** (2013.01 - EP); **F23G 2207/104** (2013.01 - EP); **F23G 2209/26** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
GB 201306943 D0 20130529; **GB 2513143 A 20141022**; **GB 2513143 B 20151111**; EP 2986914 A1 20160224; EP 2986914 B1 20171213; WO 2014170647 A1 20141023

DOCDB simple family (application)
GB 201306943 A 20130417; EP 14717839 A 20140414; GB 2014051153 W 20140414