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(71) Applicant (for all designated States except US): GRAVESON
ENERGY MANAGEMENT LTD. [GB/GB]; Keer Bridge
House, Warton, Camforth, Lancashire LA5 9HA (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): MATON, Maurice, Edward,
George [GB/GB]; Busketts House, Busketts Way, Ashurst,
Hants SO40 7AE (GB).(74) Agents: GREENWOOD, John, David et al.; Graham Watt &
Co., Riverhead, Sevenoaks, Kent TN13 2BN (GB).(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG,
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(54) Title: GASIFICATION REACTOR APPARATUS

(57) Abstract

A gasification reactor apparatus (10) comprising a gasification vessel (12), a gas-fired combustion chamber (70) and a combination fan and cyclone unit (20) in an upper part (12') of the vessel (12) with two functions: first, the fan (62, 64) impels incoming feedstock (14, 14') centrifugally into contact with the hot inside surface of the vessel to produce rapid onset of gasification. Second, the unit (20) exerts a cyclonic motion on the product gas causing outward separation of particulate matter from the gas, which passes to the outlet via a path through the middle of the vessel (12).

