

Title (en)

Method and apparatus for high temperature heat treatment of combustible material in particular waste

Title (de)

Verfahren und Vorrichtung zur Hochtemperaturbehandlung von brennbarem Material insbesondere von Abfall

Title (fr)

Procédé et dispositif pour le traitement à haute température de matériaux combustibles en particulier de déchets

Publication

**EP 1607681 B1 20110720 (EN)**

Application

**EP 04425425 A 20040610**

Priority

EP 04425425 A 20040610

Abstract (en)

[origin: EP1607681A1] Apparatus (1) for high temperature heat treatment of combustible material, in particular municipal solid waste (waste products), or waste combustible of a desired nature, provided solid and not explosive, comprising a pyrolysis chamber (41) in which the material to treat is heated in a reducing environment to a temperature suitable for making a first molecular break of the substances in they present and a combustion chamber (42) within which is achieved a full combustion of the combustible material fed by feeding oxygen in amount predetermined. The full combustion of the combustible material executed in combustion chamber (42) of the apparatus (1) produces, in particular, gas at high temperature that is sent to the pyrolysis chamber in order to raise remarkably the temperature of pyrolysis. This associated to the introducing water vapour, through a duct (6), and of air, through a duct (7), in pyrolysis chamber (41) produce semiwater gas that is then burnt in combustion chamber (42) by feeding a current (8) of a fluid containing oxygen to raise the combustion temperature in order to carry out the process to temperature that assures the molecular break of the totality of the toxic substances. <IMAGE>

IPC 8 full level

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CPC (source: EP US)

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Cited by

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