

Title (en)

Low-pressure pyrolysis furnace for the destructions of organic industrial waste

Title (de)

Niederdruckpyrolyseofen zur Vorrichtung von industriellen organischen Abfällen

Title (fr)

Four de pyrolyse sous basse pression pour la destruction de déchets organiques industriels

Publication

EP 0630957 B1 19980909 (FR)

Application

EP 93870115 A 19930623

Priority

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Abstract (en)

[origin: EP0630957A1] A furnace intended for low-pressure pyrolytic destruction of organic industrial waste comprises a substantially horizontal leakproof tubular vessel (1), a pumping unit (4) connected to the vessel via a condenser (2), means (11, 18) for introducing waste into the vessel and means of heating which consist of rectilinear electrical resistances (15) lying parallel to the axis of the vessel (1) in the proximity of the upper part of the latter, mounted bare and capable of being heated by the flow of current originating from an external source (19) to a temperature of at least 1200 DEG C. Most of the organic matter is decomposed to solid carbon and to gas or vapour, recovered in the condenser (2) or at the exit of the pumping unit (4) at the average temperature of the vessel, between 400 DEG and 600 DEG C. The molecules which are not dissociated at this temperature are dissociated by selective absorption of the radiation wavelength of the resistances (15). <IMAGE>

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C10B 1/10; **C10B 53/00**

IPC 8 full level

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CPC (source: EP)

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Cited by

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