

Title (en)

OPTIMIZED PROCESS FOR TREATING WASTE VIA HYDROTHERMAL TREATMENT

Title (de)

OPTIMIERTES VERFAHREN ZUR ABFALLBEHANDLUNG DURCH HYDROTHERMISCHE BEHANDLUNG

Title (fr)

PROCÉDÉ OPTIMISÉ DE TRAITEMENT DE DÉCHETS PAR TRAITEMENT HYDROTHERMAL

Publication

**EP 2663533 A1 20131120 (FR)**

Application

**EP 12700069 A 20120109**

Priority

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- EP 2012050248 W 20120109

Abstract (en)

[origin: WO2012095391A1] The present invention relates to a process for the hydrothermal oxidation of organic compounds, optionally with oxidizable inorganic compounds, contained in an aqueous effluent, in which said aqueous effluent is injected into a tubular reactor where the effluent is brought to a supercritical pressure and where the temperature of the effluent is gradually increased from its initial temperature up to a supercritical temperature, without intermediate temperature reduction, while introducing into said tubular reactor an amount of oxidizing agent sufficient to completely oxidize the organic compounds and optionally to at least partly oxidize oxidizable inorganic compounds, the oxidizing agent being introduced in a fractionated manner at several points located increasingly downstream of the reactor, and in which the composition and/or the concentration of organic compounds and/or of oxidizable inorganic compounds within the effluent to be treated varies with time, and, upstream of the tubular reactor where the oxidation is carried out, the TOD of the effluent to be treated is measured and it is monitored so that it has a value greater than 120 g/l and less than 250 g/l prior to its injection into the tubular reactor.

IPC 8 full level

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Citation (search report)

See references of WO 2012095391A1

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