

Title (en)

A waste incineration plant with dust collection and removal of acid compounds, particularly HC1

Title (de)

Eine Müllverbrennungsanlage mit Entstaubung und Beseitigung der sauren Verbindungen, insbesondere HC1

Title (fr)

Un dispositif pour l'incinération d'ordures ménagères avec dépoussiérage et écaïement de combinaisons acides, particulièrement HC1

Publication

EP 0748983 A1 19961218 (EN)

Application

EP 96200757 A 19960319

Priority

IT MI951242 A 19950612

Abstract (en)

A waste incineration plant with a combustion chamber (1, 8) and a heat-recovery boiler (11) in which basic material is introduced into the combustion chamber (1, 8) to initiate the removal of the acid compounds from the combustion gases under hot conditions by their conversion into salts, and in which an axial cyclone (18) in the path of the gases between the combustion chamber (1, 8) and the heat-recovery boiler (11) captures a considerable proportion of the solid particles in the gases including the fly ash and basic material for their return to the combustion chamber where an excess of the basic material over the stoichiometric quantity required for the conversion reaction is formed, with a favourable effect on the conversion yield, while downstream of the cyclone (18) the residual basic material in the gases is substantially in the stoichiometric ratio with the remaining acid substances and there is practically no fly ash, giving a substantial reduction in the re-synthesis of toxic halogenated organic compounds such as dioxins and furans, with a considerable substantial reduction in their formation. <IMAGE>

IPC 1-7

F23G 7/00; **F23C 9/06**

IPC 8 full level

F23G 5/00 (2006.01); **F23G 5/14** (2006.01); **F23J 7/00** (2006.01)

CPC (source: EP)

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Citation (search report)

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