

Title (en)

PROCESS AND APPARATUS FOR THE PURPOSEFUL DESTRUCTION (CRACKING) OF POLYCHLORODIBENZODIOXINES AND/OR POLYCHLORINATED DIBENZOFURANES AND FOR THE LOW-POLLUTION PROCESSING OF THE CRACKED MATTER

Publication

EP 0295454 B1 19910123 (DE)

Application

EP 88108074 A 19880520

Priority

DE 3719824 A 19870613

Abstract (en)

[origin: EP0295454A2] In the combustion of chlorinated organic compounds, small quantities of polychlorinated dibenzo-p-dioxines (PCDD) and dibenzofurans (PCDF) can be formed in addition to the comparatively highly concentrated gaseous and particulate combustion products such as, for example, carbon monoxide, nitrogen monoxide, sulphur dioxide, sulphur trioxide, hydrogen chloride, hydrogen fluoride, soot and solids. PCDD and PCDF have a considerable potential for polluting the environment. According to the invention, organic-chemical substances can be decomposed under defined conditions, so that, for example, toxic substances can be processed without polluting the environment. This is effected in an anaerobic atmosphere by means of a fluidised bed 3 and/or piston compressor 11, in which, for example, PCDD and PCDF are cracked. Such a process with the respective equipment can be used on site wherever polluting substances from the group indicated are formed. <IMAGE>

IPC 1-7

A62D 3/00; C10B 53/00

IPC 8 full level

A62D 3/40 (2007.01); **C10B 53/00** (2006.01); **A62D 101/22** (2007.01); **A62D 101/28** (2007.01)

CPC (source: EP)

A62D 3/40 (2013.01); **C10B 53/00** (2013.01); **A62D 2101/22** (2013.01); **A62D 2101/28** (2013.01); **A62D 2203/10** (2013.01)

Cited by

EP0570645A1; FR2671990A1; US5730947A; WO9323497A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0295454 A2 19881221; EP 0295454 A3 19890315; EP 0295454 B1 19910123; AT E60347 T1 19910215; DE 3719824 C1 19890309; DE 3861632 D1 19910228; ES 2021113 B3 19911016

DOCDB simple family (application)

EP 88108074 A 19880520; AT 88108074 T 19880520; DE 3719824 A 19870613; DE 3861632 T 19880520; ES 88108074 T 19880520