

Title (en)

Process and device for purification of noxious exhaust gases by chemical purification

Title (de)

Verfahren und Einrichtung zur Reinigung von schadstoffhaltigen Abgasen durch chemische Umsetzung

Title (fr)

Procédé et dispositif pour la purification des effluents gazeux nocifs par conversion chimique

Publication

**EP 0735321 A3 19970326 (DE)**

Application

**EP 96102122 A 19960214**

Priority

DE 19511644 A 19950330

Abstract (en)

[origin: EP0735321A2] The device cleans or purifies waste gas containing toxic substances esp. with fluoride carbonated water etc. The method uses chemical conversion in a combustion chamber with a burner for generating a burning gas flame. By spatial separation of the feeding in of gases of different combinations and quantities into the flame a flame region of reduced chemical strength is created. The gas to be cleaned is fed into this region. A strongly oxidised flame region is also formed. The gas is put into this region and then it is passed through the reduced region. The appts. for carrying out this method has a combustion chamber, a ring burner for the burning gas or gas mixture, and a central supply for the toxic waste gas into the burner. One or more inlet channels are arranged in the wall of the chamber near the burner to additionally feed in air or acid.

IPC 1-7

**F23G 7/06**; **F23G 5/14**; **F23J 15/04**

IPC 8 full level

**F23G 5/14** (2006.01); **F23G 7/06** (2006.01); **F23J 15/04** (2006.01)

CPC (source: EP)

**F23G 7/065** (2013.01)

Citation (search report)

- [A] EP 0285485 A1 19881005 - AIR LIQUIDE [FR]
- [A] EP 0311317 A2 19890412 - TOYO SANSO CO LTD [JP]
- [A] EP 0262561 A2 19880406 - MITSUBISHI JUSHI ENG [JP]

Cited by

CN107191933A; EP0819887A3; EP1291069A1; US7462333B2; DE10304489B4; EP0768109A3; US5891404A

Designated contracting state (EPC)

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