

Title (en)

METHOD AND DEVICE FOR SEPARATING GASEOUS POLLUTANTS

Title (de)

METHODE UND VORRICHTUNG ZUR ABTRENNUNG VON GASFÖRMIGEN VERUNREINIGUNGEN

Title (fr)

PROCEDE ET DISPOSITIF DE SEPARATION DE POLLUANTS GAZEUX

Publication

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Application

EP 95942354 A 19951221

Priority

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- SE 9404505 A 19941223

Abstract (en)

[origin: WO9620038A1] In a method and a device for separating gaseous pollutants, such as hydrogen chloride and sulphur dioxide, from flue gases generated upon the combustion of fossil fuel, such as coal, in an atmospheric or pressurised fluidised bed (1) in the temperature range of 700-900 DEG C, an absorbent containing burnt lime and/or substances that, in this temperature range are converted to burnt lime, is added in excess to the bed in order to react with these gaseous pollutants in the form of sulphur dioxide and convert them to separable, particulate pollutants. The particles entrained by the flue gases from the bed are separated from these gases in a first dust separator (5). A partial amount of the particles separated from the flue gases and containing burnt lime is hereby not recycled to the bed (1) but instead supplied to a contact reactor (8), in which they are mixed with the flue gases in the temperature range of 90-200 DEG C, preferably 120-150 DEG C, in order to react with the remaining gaseous pollutants in the form of hydrogen chloride in the flue gases. Then, the resulting particulate pollutants are preferably separated in a second dust separator (9).

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