

Title (en)
DEVICE AND METHOD FOR CLEANING THE EXHAUST GASES IN HEATING INSTALLATIONS WITH SIMULTANEOUS HEAT RECOVERY AND WITH DUST REMOVAL

Title (de)
VORRICHTUNG UND VERFAHREN ZUR REINIGUNG DER ABGASE IN HEIZUNGSANLAGEN UNTER GLEICHZEITIGER WÄRMERÜCKGEWINNUNG UND MIT STAUBENTFERNUNG

Title (fr)
DISPOSITIF ET PROCEDE D'EPURATION DES GAZ D'ECHAPPEMENT D'INSTALLATIONS DE CHAUFFAGE AVEC RECUPERATION DE CHALEUR ET ELIMINATION DES POUSSIERES

Publication
EP 1952063 A1 20080806 (DE)

Application
EP 06818666 A 20061120

Priority
• EP 2006011099 W 20061120
• DE 102005055550 A 20051118

Abstract (en)
[origin: WO2007057214A1] The invention relates to a method for cleaning the exhaust gases in heating installations with simultaneous heat recovery, which can be used for all kinds of liquid and solid fuels. The exhaust gas passes a heat exchanger (3; 103; 203; 403) and is subsequently at least partially sent through a perforated guiding element into a chamber (5; 105; 205; 405) with a spraying system (7; 107; 207; 407) for producing finely dispersed drops of water, where the pollutants contained in the exhaust gas are removed by spraying with the finely dispersed drops of water. The perforated guiding element may be pivotably mounted. With preference, the guiding element is an aperture plate (13; 113; 213; 413) or a perforated plate. The pollutants contained in the exhaust gas are removed initially by sprinkling and then by spraying with the finely distributed drops of water. The spraying direction of the finely distributed drops of water differs here from the direction of flow of the exhaust gas emerging from the perforated guiding element. The method may be additionally used for removing the dust deposits. The invention also relates to the device for carrying out the method.

IPC 8 full level
F23J 15/04 (2006.01); **F23J 15/06** (2006.01); **F23M 9/00** (2006.01)

CPC (source: EP)
F23J 15/04 (2013.01); **F23J 15/06** (2013.01); **F23M 9/00** (2013.01); **F23J 2217/50** (2013.01); **Y02E 20/30** (2013.01)

Citation (search report)
See references of WO 2007057214A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005055550 A1 20070524; EP 1952063 A1 20080806; WO 2007057214 A1 20070524

DOCDB simple family (application)
DE 102005055550 A 20051118; EP 06818666 A 20061120; EP 2006011099 W 20061120