

Title (en)

Economiser/environmentally-friendly device to be used in combustion heating appliances

Title (de)

Vorwärmer/umweltfreundliche Vorrichtung zur Verwendung bei Verbrennungsheizgeräten

Title (fr)

Dispositif d'économiseur/écologique à utiliser dans des appareils de chauffage à combustion

Publication

EP 2051007 A1 20090422 (EN)

Application

EP 07020214 A 20071016

Priority

EP 07020214 A 20071016

Abstract (en)

Economiser/environmentally-friendly device to be used in combustion heating appliances, especially for domestic use, such as combustion heaters and fireplaces, provided with boiler equipped with biomass (wood, pellets, wood chips, oil seeds and the like) burners. Such device is characterised in that it comprises at least one catalyst (2), at least one heat exchanger (3,4), at least one electrostatic filter (5) and at least one suction device (6), which has the function of generating reduced pressure along the path of the fumes (burner - catalyst - heat exchanger - filter).

IPC 8 full level

F23G 5/16 (2006.01); **F23G 7/07** (2006.01); **F23G 7/10** (2006.01); **F23J 15/02** (2006.01); **F23L 17/00** (2006.01)

CPC (source: EP)

B03C 3/017 (2013.01); **F23G 5/16** (2013.01); **F23G 7/07** (2013.01); **F23G 7/10** (2013.01); **F23J 15/025** (2013.01); **F23L 17/005** (2013.01); **F23J 2217/102** (2013.01)

Citation (search report)

- [XAY] US 5233934 A 19930810 - KRIGMONT HENRY V [US], et al
- [XA] DE 3331545 A1 19850228 - LENTJES DAMPFKESSEL FERD [DE]
- [Y] DE 102005023580 A1 20061123 - FEV MOTORENTECH GMBH [DE]
- [A] US 5524557 A 19960611 - SPOKOYNY FELIX E [US]
- [A] DE 19627028 A1 19980108 - SIEMENS AG [DE], et al
- [A] WO 2007036974 A1 20070405 - NONOX LTD [GB], et al

Cited by

CN102287834A; EP2762777A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 2051007 A1 20090422

DOCDB simple family (application)

EP 07020214 A 20071016