

Title (en)

Device and method for avoiding deposits on a heat exchanger

Title (de)

Vorrichtung und Verfahren zur Vermeidung von Ablagerungen an einem Wärmetauscher

Title (fr)

Dispositif et procédé destinés à éviter les dépôts sur un échangeur thermique

Publication

**EP 2530422 A3 20140409 (DE)**

Application

**EP 12169053 A 20120523**

Priority

DE 102011108633 A 20110530

Abstract (en)

[origin: EP2530422A2] The device has a heat exchanger (30) arranged between a heat exchanger (10) of an external combustion engine and a main flow channel (11) such that flue gas current (R) does not contact the latter heat exchanger. The former heat exchanger comprises a cavity (31) through which an airflow (L) is flowable. A secondary flow channel (32) is formed between the heat exchangers. The former heat exchanger and the secondary flow channel form a preheating device (50) to heat the airflow, where the cavity is arranged in the direction of the airflow in front of the secondary flow channel. The heat exchanger is made of metal or ceramic. An independent claim is also included for a method for preventing deposits in a heat exchanger.

IPC 8 full level

**F28F 19/00** (2006.01); **F28D 21/00** (2006.01)

CPC (source: EP)

**F28D 21/001** (2013.01); **F28F 19/00** (2013.01)

Citation (search report)

- [A] DE 202009011131 U1 20091029 - VAILLANT GMBH [DE]
- [A] WO 2006051266 A1 20060518 - ZENEX TECHNOLOGIES LTD [GB], et al
- [A] US 2004206485 A1 20041021 - FERRARO JOSEPH C [US]
- [A] US 4151217 A 19790424 - AMANO KAZUTOSHI [JP], et al
- [A] AU 662456 B2 19950831 - HEATMASTER TECHNOLOGY PTY LTD
- [A] US 4246887 A 19810127 - CHRISTIANSEN MARION W
- [A] WO 9011472 A1 19901004 - CUBIT LTD [GB]

Cited by

CN115615231A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2530422 A2 20121205; EP 2530422 A3 20140409**; DE 102011108633 A1 20121206

DOCDB simple family (application)

**EP 12169053 A 20120523**; DE 102011108633 A 20110530