

Title (en)

Turbulator for an exhaust gas conveyance tube in a heat exchange apparatus

Title (de)

Turbulator für ein Abgasrohr in einer Wärmetauschervorrichtung

Title (fr)

Tubulaire pour tube de transport des gaz d'échappement dans un appareil d'échange thermique

Publication

**EP 2476988 A1 20120718 (EN)**

Application

**EP 12151358 A 20120117**

Priority

IT VR20110008 A 20110118

Abstract (en)

A turbulator (3) for an exhaust gas conveyance tube in a heat exchange apparatus, comprising at least two helices (3a, 3b) made of metallic wire, which are designed to be inserted in the tube so as to adhere to the inner surface thereof, are arranged side by side and are rendered mutually integral by means of at least one connecting element.

IPC 8 full level

**F28F 1/40** (2006.01)

CPC (source: EP US)

**F28F 1/405** (2013.01 - EP US)

Citation (search report)

- [X] DE 4417524 A1 19951123 - BEHR GMBH & CO [DE]
- [X] US 4798241 A 19890117 - JARRETT FRANK N [US], et al

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 2476988 A1 20120718**; AU 2012200234 A1 20120802; CA 2763914 A1 20120718; IT VR20110008 A1 20120719;  
RU 2012101609 A 20130727; US 2012180999 A1 20120719

DOCDB simple family (application)

**EP 12151358 A 20120117**; AU 2012200234 A 20120116; CA 2763914 A 20120110; IT VR20110008 A 20110118; RU 2012101609 A 20120117;  
US 201213351107 A 20120116