

Title (en)  
Cooler

Title (de)  
Kühler

Title (fr)  
Refroidisseur

Publication  
**EP 2757340 A3 20150909 (DE)**

Application  
**EP 14151073 A 20140114**

Priority  
DE 102013000766 A 20130118

Abstract (en)  
[origin: EP2757340A2] The radiator (10) has a heat exchanger (12) which is positioned in housing (11) to supply coolant to a gaseous medium flowed around pipes. An inlet (13) is provided to supply gaseous medium into housing through a flow enter side portion (14) of heat exchanger. An outlet (15) is provided to discharge gaseous medium from housing through a flow withdraw side portion (16) of heat exchanger. Perforated plate-like flow comparison moderation elements (18,19) are positioned in a flow direction of gaseous medium seen from upstream of flow enter side portion.

IPC 8 full level  
**F28F 9/00** (2006.01); **F28D 7/16** (2006.01); **F28F 13/06** (2006.01)

CPC (source: EP US)  
**F25D 31/00** (2013.01 - US); **F28D 7/16** (2013.01 - EP US); **F28F 9/005** (2013.01 - EP US); **F28F 13/06** (2013.01 - EP US);  
**F28F 2009/222** (2013.01 - EP US)

Citation (search report)

- [X] JP 2010133678 A 20100617 - KOBE STEEL LTD
- [X] FR 984248 A 19510703 - AIR PREHEATER
- [X] JP S5040901 A 19750415
- [A] JP S56140073 U 19811022

Cited by  
EP3869136A1; US11519644B2

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 2757340 A2 20140723; EP 2757340 A3 20150909; EP 2757340 B1 20170614**; CN 103983127 A 20140813; CN 103983127 B 20170412;  
DE 102013000766 A1 20140724; JP 2014137219 A 20140728; JP 6324732 B2 20180516; US 2014202198 A1 20140724;  
US 9279612 B2 20160308

DOCDB simple family (application)  
**EP 14151073 A 20140114**; CN 201410024183 A 20140120; DE 102013000766 A 20130118; JP 2014006546 A 20140117;  
US 201414158576 A 20140117