

Title (en)  
Internal heat exchanger for an air conditioning system

Title (de)  
Interner Wärmetauscher für eine Klimaanlage

Title (fr)  
Échangeur de chaleur interne pour système de conditionnement d'air

Publication  
**EP 2735835 A3 20141126 (EN)**

Application  
**EP 13193650 A 20131120**

Priority  
US 201261729875 P 20121126

Abstract (en)  
[origin: EP2735835A2] An internal heat exchanger (1) for an air conditioning system (2), comprising an outer tube (3) and a line structure (4) arranged inside the outer tube (3), characterized the line structure (4) includes a first flow channel (5), and wherein a second flow channel (6) is formed between the outer tube (3) and line structure (4), wherein the first flow channel (5) has a meandering configuration.

IPC 8 full level  
**F28F 1/40** (2006.01); **F25B 40/00** (2006.01); **F28D 7/08** (2006.01); **F28D 7/10** (2006.01); **F28F 13/06** (2006.01)

CPC (source: EP KR US)  
**F25B 40/00** (2013.01 - EP US); **F28D 7/082** (2013.01 - EP US); **F28D 7/10** (2013.01 - EP US); **F28F 1/10** (2013.01 - KR); **F28F 1/32** (2013.01 - KR); **F28F 1/40** (2013.01 - EP US); **F28F 13/06** (2013.01 - EP US)

Citation (search report)

- [XAI] EP 1512924 A2 20050309 - LG ELECTRONICS INC [KR]
- [XI] EP 1849989 A1 20071031 - DAF TRUCKS NV [NL]
- [X] US 4089667 A 19780516 - JONSSON KJARTAN A
- [X] US 2010243220 A1 20100930 - GESKES PETER [DE], et al
- [A] DE 3443085 A1 19850613 - KUEHNER GMBH & CIE [DE]
- [A] WO 2011071393 A1 20110616 - ENERGY SAVING CONCEPTS LTD [NZ], et al

Cited by  
RU168223U1; RU168222U1

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 2735835 A2 20140528; EP 2735835 A3 20141126**; BR 102013029900 A2 20140923; CN 103836843 A 20140604; DE 202013011854 U1 20140812; JP 2014115074 A 20140626; KR 20140067929 A 20140605; US 2014151004 A1 20140605

DOCDB simple family (application)  
**EP 13193650 A 20131120**; BR 102013029900 A 20131121; CN 201310611045 A 20131126; DE 202013011854 U 20131120; JP 2013243673 A 20131126; KR 20130144429 A 20131126; US 201314090442 A 20131126