

Title (en)

HEAT EXCHANGER ARTICLE WITH HOLLOW TUBE HAVING PLURALITY OF VANES

Title (de)

WÄRMETAUSCHERARTIKEL MIT HOHLWELLENROHR MIT MEHREREN SCHAUFELN

Title (fr)

ARTICLE D'ÉCHANGEUR DE CHALEUR À TUBE CREUX AYANT UNE PLURALITÉ D'AUBES

Publication

EP 3054253 A1 20160810 (EN)

Application

EP 16154908 A 20160209

Priority

US 201514616819 A 20150209

Abstract (en)

A heat exchanger article (22) includes a hollow tube (24) that has a tube wall (26) with an interior surface (26a) and an exterior surface (26b). The interior surface (26a) defines a flow passage (28) through the hollow tube (24). The hollow tube (24) also includes a vane cluster (30) in the flow passage (28). The vane cluster (30) includes a plurality of vanes (32) and each of the vanes (32) extends inwardly from the tube wall (26).

IPC 8 full level

F28F 1/40 (2006.01); **F28F 1/42** (2006.01)

CPC (source: EP US)

F28F 1/40 (2013.01 - EP US); **F28F 1/422** (2013.01 - EP US)

Citation (search report)

- [XII] US 2011094721 A1 20110428 - TSAI CHING-HSIEN [TW]
- [XI] WO 2014125260 A1 20140821 - NEWTON RAY [GB], et al
- [X] GB 1359647 A 19740710 - DEWANDRE CO LTD C

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)

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DOCDB simple family (application)

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