

Title (en)  
Heat exchanger

Title (de)  
Wärmetauscher

Title (fr)  
Echangeur de chaleur

Publication  
**EP 2520888 A1 20121107 (EN)**

Application  
**EP 12166612 A 20120503**

Priority  
IT TO20110392 A 20110503

Abstract (en)  
A heat exchanger comprises a through pipe (2), a first flange (4) and a second flange (4'), which are traversed by said through pipe (2) and define, respectively, at least one inlet (5) and one outlet (8), and a sleeve (3), which houses at least partially in an axial direction the through pipe (2) and is fixed to the latter in a fluid-tight way via the first and second flanges (4, 4'). Moreover, a plurality of channels (11) are defined at least partially between the through pipe (2) and the sleeve (3), a first annular chamber (6) is fluidically set between the channels (11) and the inlet (5), and a second annular chamber (9) is fluidically set between the channels (11) and the outlet (8). In particular, the hydraulic resistance (R1) of the channels (11) varies along the circumference for controlling the flowrate of fluid at inlet to each channel (11).

IPC 8 full level  
**F28D 7/10** (2006.01)

CPC (source: EP)  
**F28D 7/106** (2013.01)

Citation (search report)

- [A] US 6098704 A 20000808 - TSUCHIYA SHIZUO [JP], et al
- [A] KR 20100111610 A 20101015 - HS R & A CO LTD [KR]
- [A] EP 2199721 A1 20100623 - HUTCHINSON [FR]

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 2520888 A1 20121107**; IT TO20110392 A1 20121104

DOCDB simple family (application)  
**EP 12166612 A 20120503**; IT TO20110392 A 20110503