

Title (en)  
HEAT TRANSFER DEVICE

Publication  
**EP 0048873 A3 19820901 (DE)**

Application  
**EP 81107194 A 19810911**

Priority  
DE 3036334 A 19800926

Abstract (en)  
[origin: EP0048873A2] 1. Heat transfer device for the transfer of heat between two flowing media which are separated from each other by heat transfer surfaces, in which the heat transfer surfaces are formed as at least two tubes (2) arranged in a tubular jacket (1) and through each of these tubes there extends at least one conduit tube (3) such that a clearance space (13) is formed between each conduit tube and the inner wall surface of the associated tube, and in which both the tubular jacket and also the conduit tubes are connected to each other by way of a distributing chamber (10) for a first medium on the one hand and a collector (15) for the first medium on the other hand, said distributing chamber and collector being separated respectively from a distributing chamber (5a) and collecting chamber (5) for a second medium connecting the tubes and the clearance spaces to each other, characterised in that the tubular jacket (1) and the tubes (2) which are arranged therein and which each surround a conduit tube (3) each have a rectangular cross-section and each conduit tube (3) has a circular cross-section, and, both in the clearance space (30) formed between the outer wall surfaces of the tubes (2) and also in the clearance space (14) formed between the outer wall surfaces of the tubes (2) and the inner wall surface of the tubular jacket (1), there are arranged flow-guiding devices (12) in the form of meander wires having a thickness corresponding to the effective width of the clearance spaces (14, 30).

IPC 1-7  
**F28D 7/10**

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

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

Citation (search report)  
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CN110608623A

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

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