

Title (en)  
MANIFOLD AND HEAT EXCHANGER HAVING SAME

Title (de)  
VERTEILER UND WÄRMETAUSCHER DAMIT

Title (fr)  
COLLECTEUR ET ÉCHANGEUR DE CHALEUR PRÉSENTANT CELUI-CI

Publication  
**EP 2977706 A4 20170118 (EN)**

Application  
**EP 14767307 A 20140306**

Priority  
• CN 201310089314 A 20130319  
• CN 2014072985 W 20140306

Abstract (en)  
[origin: EP2977706A1] Disclosed is a collecting pipe (1), comprising: an axially extending inner chamber (20), the inner chamber (20) comprising a refrigerant inlet chamber (18) and a refrigerant distribution chamber (19), the refrigerant inlet chamber (18) and refrigerant distribution chamber (19) being separated from each other and in fluid communication with each other, a refrigerant entering the refrigerant inlet chamber (18) and being distributed to heat exchange tubes (2) at the refrigerant distribution chamber (19); and a plurality of axially extending individual components (11, 12), wherein the refrigerant inlet chamber (18) and the refrigerant distribution chamber (19) are formed by successively placing and connecting the plurality of axially extending individual components (11, 12) in an assembling direction perpendicular to the axial direction. The collecting pipe (1) is composed of the plurality of individual components (11, 12). The plurality of individual components (11, 12) are connected together, such that the problem of two-phase flow distribution in a heat exchanger is mitigated, the heat exchange performance is improved, the problem of unstable product quality is mitigated, and the currently existing problem of the high cost of high frequency welded tubes is solved.

IPC 8 full level  
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**F28D 1/05366** (2013.01 - EP US); **F28D 1/05391** (2013.01 - EP US); **F28F 9/02** (2013.01 - US); **F28F 9/0224** (2013.01 - EP US); **F28F 9/0273** (2013.01 - EP US); **F28F 1/126** (2013.01 - EP US); **F28F 2275/064** (2013.01 - EP US)

Citation (search report)  
No further relevant documents disclosed

Cited by  
EP3619492B1

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