

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 A1 20160127 (EN)

Application
EP 14767307 A 20140306

Priority
• CN 201310089314 A 20130319
• CN 2014072985 W 20140306

Abstract (en)
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
F28F 9/02 (2006.01); **F25B 39/00** (2006.01)

CPC (source: EP US)
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Cited by
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Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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