

Title (en)
Heat exchanger with a manifold plate

Title (de)
Wärmetauscher mit Verteilerplatte

Title (fr)
Échangeur thermique avec plaque collectrice

Publication
EP 2372283 B1 20130904 (EN)

Application
EP 10157289 A 20100323

Priority
EP 10157289 A 20100323

Abstract (en)
[origin: EP2372283A1] Heat exchanger (10) comprising a collector box (18) and at least one longitudinal row (R1, R2) of heat exchange tubes (12), said tubes (12) being connected to the bottom face of the collector box (18), said collector box (18) being connected to a first fluid source through a connection device (48) and being made up of stacked plates including a distribution plate (25) comprising at least one row of distribution slots (36) for distribution of the first fluid into the tubes (12), characterized in that the collector box (18) further comprises a manifold plate (23) comprising a main longitudinal portion essentially flat having at least one longitudinal recessed portion (72, 74, 76, 78) forming a manifold channel which is in communication with the distribution slots (36) of the distribution plate (25) downwardly and with the connection device (48).

IPC 8 full level
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CPC (source: EP)
F28D 1/05391 (2013.01); **F28F 9/0253** (2013.01); **F28F 9/0278** (2013.01)

Citation (examination)
• US 5242016 A 19930907 - VOSS MARK G [US], et al
• JP H09189463 A 19970722 - MITSUBISHI ELECTRIC CORP

Cited by
KR20170074991A; CN109952478A; EP3457070A1; EP3907459A1; DE102014203038A1; EP2998683A4; US11624565B2; JPWO2021149223A1; WO2019057747A1; WO2019223797A1; US10077953B2; US10281223B2; WO2021223944A1

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