

Title (en)
Holder module for heat exchange tubes

Title (de)
Haltemodul für Wärmetauscherrohre

Title (fr)
Module de fixation pour tuyaux d'échange thermique

Publication
EP 2299231 A3 20140730 (DE)

Application
EP 10169523 A 20100714

Priority
DE 102009039816 A 20090902

Abstract (en)
[origin: EP2299231A2] The module (1) has a lower holding module half (1b) provided with a set of recesses (3b), where each recess receives a heat exchanger tube. An upper holding module half (1a) comprises a set of recesses (3a), and is placed onto the lower holding module half such that the recesses of the upper holding module half lie opposite to the recesses of the lower module half. A connecting element connects the upper and lower holding module halves. The connecting element is a plug-in element (11), which extends in a longitudinal direction of the exchanger tube. Independent claims are also included for the following: (1) a rack comprising a set of units for receiving multiple holding modules (2) a method for setting up a rack for heat exchanger tubes.

IPC 8 full level
F28F 9/013 (2006.01)

CPC (source: EP US)
F28F 9/0131 (2013.01 - EP US); **Y10T 29/49826** (2015.01 - EP US)

Citation (search report)

- [X] JP S6294796 A 19870501 - NISHIDA MARINE BOILER
- [X] DE 102007017564 A1 20081016 - WALLSTEIN INGENIEUR GMBH [DE]
- [X] DE 202006012164 U1 20061012 - BABCOCK BORSIG SERVICE GMBH [DE]
- [X] AU 5362079 A 19800904 - MORRISSEY JOHN BERNARD
- [A] US 5404941 A 19950411 - JACKSITS RAYMOND J [US]

Cited by
DE102019135082A1

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
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DOCDB simple family (application)
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