

Title (en)
SPIRAL FIN TUBE TYPE HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER MIT SPIRALRIPPEN

Title (fr)
ÉCHANGEUR DE CHALEUR DE TYPE TUBE À AILETTES EN SPIRALE

Publication
EP 2110633 A1 20091021 (EN)

Application
EP 07713754 A 20070131

Priority
JP 2007051594 W 20070131

Abstract (en)
It is an object to provide a finned tube type heat exchanger (spiral tube fin heat exchanger) capable of having a reduced size and having an increased heat exchange efficiency and, therefore, an increased performance. A spiral tube fin heat exchanger includes a plurality of heat transfer tubes that allow a heat exchanging object to flow therein and each including a radially-extending tube fin on an outer peripheral surface thereof, the plurality of heat transfer tubes being arranged to be oriented in an identical direction, wherein the tube fin has a spiral shape and has a spiral axis being coincident with a center axis of each of the heat transfer tubes, and the plurality of heat transfer tubes are arranged such that tip ends of tube fin portions in one of adjacent heat transfer tubes intrude between tube fin portions in the other one of adjacent heat transfer tubes.

IPC 8 full level
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CPC (source: EP US)
F28D 7/1607 (2013.01 - EP US); **F28F 1/36** (2013.01 - EP US); **F28F 2215/00** (2013.01 - EP US)

Citation (search report)
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