

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMEAUSTAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR

Publication
EP 1273858 A1 20030108 (EN)

Application
EP 01901438 A 20010119

Priority
• JP 0100317 W 20010119
• JP 2000107441 A 20000410

Abstract (en)
The upstream side ends of fins (16) along the ventilating direction project out relative to the upstream side ends along the ventilating direction of tubes (14) without being allowed to project out beyond the end faces of tanks (2) and (3) along the ventilating direction so as to set the tubes (14) at positions recessed toward the downstream side along the ventilating direction relative to the fins (16), and the downstream side ends of the fins (16) along the ventilating direction are recessed further toward the upstream side along the ventilating direction relative to the downstream side ends of tubes (15) along the ventilating direction. As a result, the evaporator achieves a lower profile along the ventilating direction and, at the same time, condensed water manifesting at the surfaces of the tubes and fins is drained downward with a high degree of efficiency, thereby minimizing occurrence of spattering of the condensed water onto the downstream side and also, it becomes possible to prevent corrosion from advancing at the tubes due to dirt adhering onto the upstream side of the tubes along the ventilating direction. <IMAGE>

IPC 1-7
F25B 39/02

IPC 8 full level
B60H 1/32 (2006.01); **F25B 39/02** (2006.01); **F28D 1/03** (2006.01); **F28D 1/053** (2006.01); **F28F 1/12** (2006.01); **F28F 17/00** (2006.01); **F25B 47/00** (2006.01); **F25D 21/14** (2006.01)

CPC (source: EP US)
F25B 39/02 (2013.01 - EP US); **F28D 1/0391** (2013.01 - EP US); **F28D 1/05391** (2013.01 - EP US); **F28F 1/126** (2013.01 - EP US); **F28F 17/005** (2013.01 - EP US); **F25B 47/003** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US); **F25D 21/14** (2013.01 - EP US)

Citation (search report)
See references of WO 0177591A1

Cited by
WO2004068052A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1273858 A1 20030108; JP 2001289535 A 20011019; US 2003106678 A1 20030612; WO 0177591 A1 20011018

DOCDB simple family (application)
EP 01901438 A 20010119; JP 0100317 W 20010119; JP 2000107441 A 20000410; US 25707302 A 20021009