

Title (en)
INDOOR HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER FÜR INNENRÄUME

Title (fr)
ÉCHANGEUR DE CHALEUR INTÉRIEUR

Publication
EP 3441683 A4 20190417 (EN)

Application
EP 17779080 A 20170403

Priority
• JP 2016077262 A 20160407
• JP 2017013908 W 20170403

Abstract (en)
[origin: EP3441683A1] To provide an indoor heat exchanger that reduces an increase in air flow resistance and enables easy discharge of condensed water, a first heat transfer fin (31) and a second heat transfer fin (32) each include a windward main portion (33) formed with a notch (35) that receives a first flat tube (21) and a second flat tube (22), respectively, and a leeward communication portion (34) located on a side opposite to an open end of the notch (35). In the first heat exchange portion (11) and the second heat exchange portion (12), the plurality of first flat tubes (21) and the plurality of second flat tubes (22) in the rows are arranged in a width direction, and the first and second heat exchange portions each have a bent shape with an inner peripheral side on a windward side and an outer peripheral side on a leeward side.

IPC 8 full level
F24F 1/00 (2019.01); **F24F 1/0063** (2019.01); **F24F 1/0067** (2019.01); **F24F 13/22** (2006.01); **F24F 13/30** (2006.01); **F25B 39/00** (2006.01); **F28F 1/02** (2006.01); **F28F 1/32** (2006.01)

CPC (source: EP US)
F24F 1/0063 (2019.01 - EP US); **F24F 1/0067** (2019.01 - EP US); **F24F 13/30** (2013.01 - US); **F25B 39/00** (2013.01 - EP US); **F28D 1/0471** (2013.01 - EP US); **F28F 1/32** (2013.01 - EP US); **F28F 1/325** (2013.01 - US); **F28F 17/005** (2013.01 - EP US); **F24F 1/0047** (2019.01 - EP US); **F24F 13/222** (2013.01 - EP US); **F28D 2021/0071** (2013.01 - EP US); **F28F 1/022** (2013.01 - EP US); **F28F 2215/12** (2013.01 - EP US)

Citation (search report)
• [Y] EP 2995886 A1 20160316 - MITSUBISHI ELECTRIC CORP [JP]
• [Y] US 2013306286 A1 20131121 - JINDOU MASANORI [JP], et al
• [A] WO 2015025365 A1 20150226 - MITSUBISHI ELECTRIC CORP [JP]
• See references of WO 2017175702A1

Designated contracting state (EPC)
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Designated extension state (EPC)
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EP 3441683 A1 20190213; EP 3441683 A4 20190417; EP 3441683 B1 20200304; AU 2017247746 A1 20181129; AU 2017247746 B2 20181206; CN 108885015 A 20181123; ES 2793474 T3 20201116; JP 2017187243 A 20171012; JP 6380449 B2 20180829; US 2019170372 A1 20190606; WO 2017175702 A1 20171012

DOCDB simple family (application)
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