

Title (en)
A PLATE HEAT EXCHANGER

Title (de)
PLATTENWÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR À PLAQUES

Publication
EP 4343257 A1 20240327 (EN)

Application
EP 22196564 A 20220920

Priority
EP 22196564 A 20220920

Abstract (en)
The disclosure relates to a plate heat exchanger (1) comprising: a package of heat exchanger plates (2), each having a peripheral portion (4) and several port portions (6a,6b) with through flow ports (8a,8b) communicating with flow passages (12) between adjacent heat exchanger plates (2). First guiding ribs (50) are arranged in the port portions (6a,6b), which first guiding ribs (50) in every other flow passage (12) between the heat exchanger plates (2) are configured to guide and distribute the first heat exchange medium (18) from a first inlet channel (16a) to a heat exchange portion (14) and from the heat exchange portion (14) to a first outlet channel (16b), and in that second guiding ribs (52) are arranged in the port portions (6a,6b), which second guiding ribs (52) in the remaining flow passages (12) between the heat exchanger plates (2) are configured to guide and distribute a second heat exchange medium (22) from a second inlet channel (20a) to the heat exchange portion (14) and from the heat exchange portion (14) to a second outlet channel (20b).

IPC 8 full level
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CPC (source: EP)
F28D 9/005 (2013.01); **F28F 3/025** (2013.01); **F28F 3/046** (2013.01); **F28F 9/0268** (2013.01)

Citation (applicant)
• WO 2013144211 A1 20131003 - ALFA LAVAL CORP AB [SE]
• KR 20180028704 A 20180319

Citation (search report)
• [XA] EP 3546257 A1 20191002 - DENSO THERMAL SYSTEMS SPA [IT]
• [XA] US 2008236802 A1 20081002 - KOEPKE ANDREAS [DE], et al
• [XA] US 2010175858 A1 20100715 - MIAO ZHIXIAN [CN], et al
• [A] US 4781248 A 19881101 - PFEIFFER JOHANN [DE]

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