

Title (en)
HEAT EXCHANGER PORT INSERT

Title (de)
WÄRMETAUSCHERANSCHLUSSEINSATZ

Title (fr)
INSERT DE PORT D'ÉCHANGEUR DE CHALEUR

Publication
EP 4095470 A1 20221130 (EN)

Application
EP 21176433 A 20210528

Priority
EP 21176433 A 20210528

Abstract (en)
A heat exchanger port insert (38, 40) is provided. It comprises a tubular portion (42, 56) and a flange (44) projecting from an outside (52, 58) of the tubular portion (42, 56). The heat exchanger port insert (38, 40) is characterized in that the flange (44) comprises an annular inner portion (46) and a first fastening projection (48) having an outer contour (60). The inner portion (46) comprises an annular inner edge (50) along which the inner portion (46) joins the tubular portion (42, 56). The first fastening projection (48) protrudes from an annular outer edge (54) of the inner portion (46) so as to give the flange (44) a locally increased width at the first fastening projection (48).

IPC 8 full level
F28D 9/00 (2006.01); **F28F 3/08** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)
F28D 9/005 (2013.01); **F28F 3/083** (2013.01); **F28F 9/0248** (2013.01); **F28F 2275/20** (2013.01); **F28F 2275/205** (2013.01)

Citation (search report)

- [XA] WO 2016128322 A1 20160818 - TITANX ENGINE COOLING HOLDING AB [SE]
- [XA] US 6899169 B1 20050531 - COX RICHARD D [US]
- [XA] US 2014196870 A1 20140717 - RUSICH RICHARD [US], et al
- [X] US 2016049705 A1 20160218 - MAHE CHRISTIAN [FR], et al
- [A] WO 2008063121 A1 20080529 - ALFA LAVAL CORP AB [SE], et al
- [A] CN 104567490 A 20150429 - SHANGHAI ACCESEN NEW TECH CO LTD, et al

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4095470 A1 20221130; CN 117396717 A 20240112; EP 4348149 A1 20240410; JP 2024520508 A 20240524; WO 2022248251 A1 20221201

DOCDB simple family (application)
EP 21176433 A 20210528; CN 202280038194 A 20220513; EP 2022063037 W 20220513; EP 22728897 A 20220513; JP 2023573247 A 20220513