

Title (en)
HEAT TRANSFER PLATE

Title (de)
WÄRMEÜBERTRAGUNGSPLATTE

Title (fr)
PLAQUE DE TRANSFERT DE CHALEUR

Publication
EP 4389932 A1 20240626 (EN)

Application
EP 22215787 A 20221222

Priority
EP 22215787 A 20221222

Abstract (en)
A corrugated heat transfer plate (5, 90, 92). It has opposing front and back sides (7, 9) and comprises a first end portion (11), a center portion (13) and a second end portion (15). It further comprises first and third portholes (17, 19) arranged within the first end portion (11), second and fourth portholes (27, 29) arranged within the second end portion (15), and a heat transfer area (4) comprising alternately arranged elongate ridges (6) and valleys (8) and being arranged within the center portion (13). An outer front field gasket groove (36) extends on the front side (7) and encloses the heat transfer area (4), while a back field sealing area (40) extends on the back side (9) and encloses the heat transfer area (4). The heat transfer plate (5, 90, 92) is characterized in that it further comprises a fifth porthole (21) arranged within the first end portion (11), a first transfer hole (25) arranged within a first half (h1) of the heat transfer plate (5, 90, 92), and a second transfer hole (35) arranged within a second half (h2) of the heat transfer plate (5, 90, 92). The first and second transfer holes (25, 35) are arranged within the outer front field gasket groove (36) and outside the back field sealing area 40. The first and second portholes (17, 27) are arranged within the back field sealing area (40), the third, fourth and fifth portholes (19, 29, 21) are arranged outside the back field sealing area (40), and the first, second, third, fourth and fifth portholes (17, 27, 19, 29, 21) are arranged outside the outer front field gasket groove (36).

IPC 8 full level
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Citation (applicant)
EP 4012070 A1 20220615 - DANFOSS AS [DK]

Citation (search report)
• [A] WO 2020160424 A1 20200806 - AQUAHYDREX INC [US]
• [A] WO 2022156869 A1 20220728 - STIESDAL PTX TECH A/S [DK]
• [A] WO 2004102710 A1 20041125 - HYDROGENICS CORP [CA], et al
• [A] WO 0167021 A1 20010913 - ALFA LAVAL AB [SE], et al
• [A] WO 2006104443 A1 20061005 - ALFA LAVAL CORP AB [SE], et al

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