

Title (en)
FLOODED EVAPORATOR

Title (de)
ÜBERFLUTETER VERDAMPFER

Title (fr)
ÉVAPORATEUR NOYÉ

Publication
EP 3627073 A1 20200325 (EN)

Application
EP 19189483 A 20190731

Priority
IT 201800008690 A 20180918

Abstract (en)
A flooded evaporator (6) for a cooling system (1) comprises: a shell (60) delimiting an internal volume; a set of pipes (67) passing through the internal volume and configured for circulating a liquid to be cooled; an inlet (61) at a lower portion (602) of the shell (60), to receive a refrigerant fluid in a liquid phase; an outlet (62) at an upper portion (601) of the shell (60), to release the refrigerant fluid in a vapor phase; an additional outlet (63), provided at the lower portion (602) of the shell (60), to release the refrigerant fluid in the liquid phase. [Figure 5A]

IPC 8 full level
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Citation (applicant)
• JP H0252959 A 19900222 - EBARA CORP
• WO 2008079118 A1 20080703 - CARRIER CORP [US], et al
• WO 2008079138 A1 20080703 - CARRIER CORP [US], et al
• WO 2008079116 A1 20080703 - CARRIER CORP [US], et al
• WO 2009038552 A1 20090326 - CARRIER CORP [US], et al
• CN 103925747 A 20140716 - ZHUHAI GREE ELEC APPLIANCES
• US 3744273 A 19730710 - WARE C
• US 4843837 A 19890704 - OGAWA YASUO [JP], et al
• CN 203501522 U 20140326 - WUHAN NEW WORLD REFRIGERATION IND CO LTD
• US 2018187932 A1 20180705 - MIYOSHI NAOYA [JP], et al

Citation (search report)
• [XY] US 3744273 A 19730710 - WARE C
• [IY] JP H0252959 A 19900222 - EBARA CORP
• [X] US 4843837 A 19890704 - OGAWA YASUO [JP], et al
• [X] CN 203501522 U 20140326 - WUHAN NEW WORLD REFRIGERATION IND CO LTD
• [X] CN 204535167 U 20150805 - NANJING LENGDE ENERGY SAVING TECHNOLOGY CO LTD, et al
• [X] US 2018187932 A1 20180705 - MIYOSHI NAOYA [JP], et al
• [X] CN 203274339 U 20131106 - ZHU JIN
• [I] JP 2011169532 A 20110901 - MITSUBISHI HEAVY IND LTD
• [A] US 2016056 A 19351001 - SMALL NORMAN M
• [A] GB 2233080 A 19910102 - STAR REFRIGERATION [GB]

Designated contracting state (EPC)
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