

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  
**F25B 25/00** (2006.01); **F25B 41/00** (2006.01); **F28D 21/00** (2006.01)

CPC (source: EP)  
**F25B 25/00** (2013.01); **F25B 41/00** (2013.01); **F28D 7/16** (2013.01); **F28D 21/0017** (2013.01); **F25B 2339/024** (2013.01);  
**F25B 2339/0242** (2013.01); **F25B 2400/0401** (2013.01); **F25B 2400/0409** (2013.01); **F25B 2400/0411** (2013.01); **F25B 2400/13** (2013.01);  
**F25B 2500/31** (2013.01); **F28D 2021/0071** (2013.01)

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)

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

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