

Title (en)  
EVAPORATOR AND REFRIGERANT CIRCUIT

Title (de)  
VERDAMPFER UND KÜHLKREIS

Title (fr)  
ÉVAPORATEUR ET CIRCUIT DE RÉFRIGÉRANT

Publication  
**EP 3306232 A1 20180411 (EN)**

Application  
**EP 17194600 A 20171003**

Priority  
JP 2016197354 A 20161005

Abstract (en)  
The accumulation of lubricating oil within a header is suppressed in a configuration including a plurality of heat transfer pipes. A heat exchanger 10A includes a plurality of heat transfer pipes 11 that are provided at intervals in a vertical direction and allow a refrigerant to flow therethrough toward first ends; and a header 20A that extends in the vertical direction, has the first ends of the plurality of heat transfer pipes 11 connected thereto, and allows the refrigerant to flow from a lower end 20s toward an upper end 20t to which a refrigerant pipe 4 is connected. A flow passage cross-sectional area of a portion of the header 20A to which a heat transfer pipe 11A located at a lowermost stage among the plurality of heat transfer pipes 11 is connected is smaller than a flow passage cross-sectional area at the upper end 20t of the header 20A.

IPC 8 full level  
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CPC (source: EP US)  
**F25B 39/028** (2013.01 - EP US); **F25B 41/22** (2021.01 - EP US); **F25B 41/40** (2021.01 - EP US); **F28F 9/0243** (2013.01 - EP); **F28F 9/0263** (2013.01 - EP); **F25B 31/004** (2013.01 - EP); **F25B 41/42** (2021.01 - EP US); **F25B 2339/02** (2013.01 - EP); **F25B 2400/0409** (2013.01 - EP); **F25B 2600/2501** (2013.01 - EP); **F28D 2021/0071** (2013.01 - EP); **F28F 2009/029** (2013.01 - EP); **F28F 2250/06** (2013.01 - EP)

Citation (applicant)  
JP H0325656 A 19910204 - NEC CORP

Citation (search report)  
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• [YA] WO 2013095424 A1 20130627 - ALSTOM TECHNOLOGY LTD [CH], et al  
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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)  
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DOCDB simple family (publication)  
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