

Title (en)
EVAPORATOR AND REFRIGERANT CIRCUIT

Title (de)
VERDAMPFER UND KÜHLKREIS

Title (fr)
ÉVAPORATEUR ET CIRCUIT RÉFRIGÉRANT

Publication
EP 3306234 B1 20190501 (EN)

Application
EP 17194601 A 20171003

Priority
JP 2016197401 A 20161005

Abstract (en)
[origin: EP3306234A1] The accumulation of lubricating oil within a header (20A, 20D, 20E) is suppressed while suppressing the outflow of a refrigerant in a configuration including a plurality of heat transfer pipes (11, 11A, 11B, 11C). A heat exchanger (10A, 10B, 10C, 10D, 10E) includes a plurality of heat transfer pipes (11, 11A, 11B, 11C) that are provided at intervals in a vertical direction and allow a refrigerant to flow therethrough toward first ends (115); a header (20A, 20D, 20E) that extends in the vertical direction, has the first ends of the plurality of heat transfer pipes (11, 11A, 11B, 11C) connected thereto, and allows the refrigerant to flow from a lower end (20s) toward an upper end (20t) to which a refrigerant pipe (4, 4E) is connected; and a bypass pipe (30) that allows the lower end (20s) of the header (20A, 20D, 20E) and the refrigerant pipe (4, 4E) to communicate with each other. The length of the bypass pipe (30) is made longer than the length of a flow passage that leads from the lower end (20s) of the header (20A, 20D, 20E) through the upper end (20t) to a site to which the bypass pipe (30) of the refrigerant pipe (4, 4E) is joined.

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F25B 39/028 (2013.01 - EP US); **F25B 41/22** (2021.01 - EP US); **F25B 41/37** (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 2250/06** (2013.01 - EP)

Cited by
CN110230901A; US11156412B2; WO2024078660A1

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