Title (en)

TRANSFORMER FOR VEHICLE

Title (de)

TRANSFORMATOR FÜR FAHRZEUG

Title (fr)

TRANSFORMATEUR DESTINÉ À UN VÉHICULE

Publication

EP 3514812 B1 20220921 (EN)

Application EP 16916188 A 20160913

Priority

JP 2016076946 W 20160913

Abstract (en)

[origin: EP3514812A1] A traction transformer (10), which is to be installed on a roof (2) of a vehicle (1), includes: a main pipe (12), which forms a circulation passage for refrigerant; a transformer tank (13), which is arranged midway of the circulation passage, and is configured to accommodate a winding wire and store the refrigerant; a circulation pump (14), which is arranged midway of the circulation passage, and is configured to circulate the refrigerant in the circulation passage; and a cooler (15), which is arranged midway of the circulation passage and arranged on an upper surface of the transformer tank (13), and is configured to cool the refrigerant by heat exchange with air through use of traveling wind generated by traveling of the vehicle (1). The cooler (15) includes: a cooling-pipe mechanism, which is formed of a plurality of cooling pipes, and is arranged in a Z direction from the upper surface of the transformer tank (13); an inlet header (16a), which is configured to allow the refrigerant to flow into the cooling-pipe mechanism from the circulation pump side; and an outlet header (16b), which is configured to allow the refrigerant having flowed through the cooling-pipe mechanism to flow out to the transformer tank (13) side.

IPC 8 full level

H01F 27/12 (2006.01); H01F 27/02 (2006.01); H01F 38/00 (2006.01)

CPC (source: EP)

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