

Title (en)

TRACTION TRANSFORMER FOR INSTALLATION ON A VEHICLE

Title (de)

TRAKTIONSTRANSFORMATOR ZUR INSTALLATION AUF EINEM FAHRZEUG

Title (fr)

TRANSFORMATEUR DE TRACTION POUR INSTALLATION SUR UN VÉHICULE

Publication

EP 3367398 B1 20210120 (EN)

Application

EP 16857191 A 20160902

Priority

- JP 2015207271 A 20151021
- JP 2016075884 W 20160902

Abstract (en)

[origin: EP3367398A1] Provided is a traction transformer, which prevents a position to which traveling wind is taken in from overlapping with a stagnation region located in rear of peripheral devices in a traveling direction of a vehicle, and which is effectively cooled by the traveling wind. A traction transformer (10a) according to the present invention includes: a transformer main body (12), which has a winding (9), and is connected to a pipe (11) through which a refrigerant oil circulates; an oil pump (13), which is configured to circulate the refrigerant oil through the pipe (11); a cooler (14a), which is connected to the pipe (11), and is configured to cool the refrigerant oil; and a first duct, which is provided in rear of the transformer main body (12) and the cooler (14a) in the traveling direction of a vehicle, and includes: a first inlet port (30), which is configured to take in traveling wind caused by traveling of the vehicle; a first air blowing port (31), which is configured to blow the traveling wind to the cooler as cooling air; and a first connection portion (35a, 35b), which is configured to connect the first inlet port (30) and the first air blowing port (31) to each other, and is configured to guide the traveling wind so that an air-blowing direction is opposite to the traveling direction of the vehicle, and to cause the guided traveling wind to be discharged as the cooling air through the first air blowing port.

IPC 8 full level

H01F 27/08 (2006.01); **B61C 17/00** (2006.01); **H01F 27/12** (2006.01)

CPC (source: EP)

B61C 17/00 (2013.01); **H01F 27/085** (2013.01); **H01F 27/12** (2013.01)

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

DOCDB simple family (publication)

EP 3367398 A1 20180829; **EP 3367398 A4 20190424**; **EP 3367398 B1 20210120**; CN 108140469 A 20180608; CN 108140469 B 20190809; JP 6359202 B2 20180718; JP WO2017068873 A1 20180215; WO 2017068873 A1 20170427

DOCDB simple family (application)

EP 16857191 A 20160902; CN 201680061477 A 20160902; JP 2016075884 W 20160902; JP 2017546446 A 20160902