

Title (en)
TRANSFORMER FOR USE IN A RAIL VEHICLE

Title (de)
TRANSFORMATOR ZUR VERWENDUNG IN EINEM SCHIENENFAHRZEUG

Title (fr)
TRANSFORMATEUR POUR L'UTILISATION DANS UN VÉHICULE FERROVIAIRE

Publication
EP 3707736 A1 20200916 (DE)

Application
EP 18799765 A 20181107

Priority
• DE 102017126473 A 20171110
• EP 2018080465 W 20181107

Abstract (en)
[origin: WO2019092014A1] A transformer (1) for use in a rail vehicle and/or for railway applications, comprising a core (2), which is surrounded at least partially by at least one coil (3, 4), is characterized with respect to the task of specifying a transformer in which the geometry of a coil can be selected as variably as possible in that the core (2) is fabricated from individual segments, wherein the overall cross-sectional area (2c) of the core (2) is greater than the sum, or equal to the sum, of the individual cross-sectional areas (2a, 2b, 2ab) of the segments, and wherein at least two individual cross-sectional areas (2a, 2b, 2ab) differ in their size and/or their geometric shape from one another and/or from the overall cross-sectional area (2c).

IPC 8 full level
H01F 37/00 (2006.01)

CPC (source: EP US)
H01F 27/245 (2013.01 - EP US); **H01F 30/10** (2013.01 - EP); **H01F 37/00** (2013.01 - EP); **H01F 41/0233** (2013.01 - US)

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

DOCDB simple family (publication)
WO 2019092014 A1 20190516; CN 111357067 A 20200630; CN 111357067 B 20230221; DE 102017126473 A1 20190516; EP 3707736 A1 20200916; US 11984248 B2 20240514; US 2020357561 A1 20201112

DOCDB simple family (application)
EP 2018080465 W 20181107; CN 201880072401 A 20181107; DE 102017126473 A 20171110; EP 18799765 A 20181107; US 201816762608 A 20181107