



(51) International Patent Classification:
B60L 5/00 (2006.01)

(21) International Application Number:
PCT/EP2010/007986

(22) International Filing Date:
21 December 2010 (21.12.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0922315.7 21 December 2009 (21.12.2009) GB

(71) Applicant (for all designated States except US): **BOMBARDIER TRANSPORTATION GMBH** [DE/DE];
Schöneberger Ufer 1, 10785 Berlin (DE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ANDERS, Dominik**
[DE/DE]; Gontardstrasse 3, 68163 Mannheim (DE).

(74) Agent: **BRESSEL UND PARTNER**; Park Kolonnaden
am Potsdamer Platz, Potsdamer Platz 10, 10785 Berlin
(DE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD,
SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— without international search report and to be republished
upon receipt of that report (Rule 48.2(g))

(54) Title: SYSTEM FOR TRANSFERRING ENERGY TO A VEHICLE AND METHOD OF OPERATING THE SYSTEM

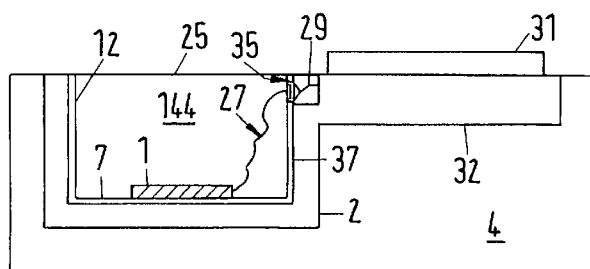


Fig.3

(57) Abstract: The invention relates to a system for transferring energy to a vehicle, in particular a track bound vehicle (162), such as a light rail vehicle, wherein - the system comprises an electric conductor arrangement (31) adapted to produce an electromagnetic field which can be received by the vehicle thereby transferring the energy to the vehicle, - the system comprises electric and/or electronic devices (1) which are adapted to operate the electric conductor arrangement (31) wherein the devices (1) produce heat while operating the conductor arrangement (31) and - therefore - are to be cooled, - a cooling arrangement of the system comprises; a structure (12) having a cavity (144) in which at least one of the devices (1) to be cooled is located; wherein the structure (12) comprises a cover (25) limiting the cavity (144) at the top, wherein the device(s) to be cooled is/are located at a distance to the cover (25); wherein the structure (12) is integrated in the ground (4) at the path of travel of the vehicle in such a manner that the cover (25) forms a part of the surface of the ground (4).

