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(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, BN, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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.

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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

[Continued on next page]

(54) Title: BASE DISTRIBUTION NETWORK FOR DYNAMIC WIRELESS CHARGING

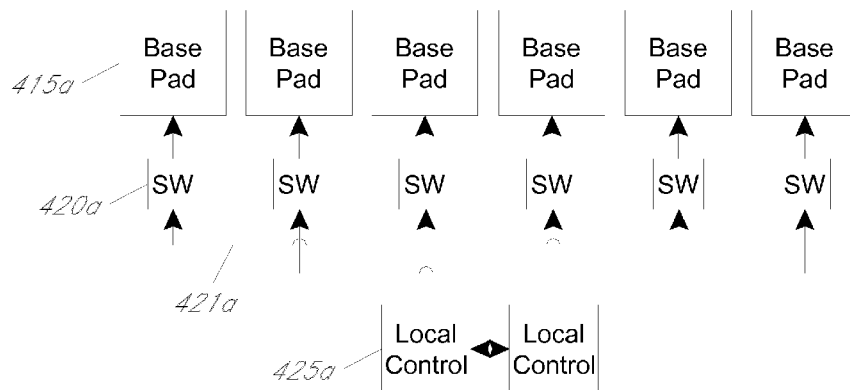
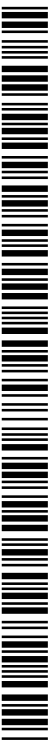


FIG. 5a

(57) Abstract: Dynamic systems may require a large number of coils (charging pads) which may be installed into the roadway to wirelessly provide power to electric vehicles as they are traveling along the roadway. The current in each of these coils may need to be turned on and off as a vehicle drives over the coils in order to efficiently utilize power and properly convey power to the passing vehicles. The supply network behind these coils may need to be capable of managing the individual coils with minimal infrastructure and cost as well as be capable of distributing the required power from the power grid to these pads efficiently and safely. The supply network may include charging coils, switches, local controllers, and distribution circuitry within a modular element, which may receive power from external sources and may be controlled by a central controller.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
INV. H02J7/02 B60L11/18 H02J5/00 B60L5/00  
ADD.  
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED  
Minimum documentation searched (classification system followed by classification symbols)  
H02J B60L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2012/161530 A1 (URANO TAKASHI [JP]) 28 June 2012 (2012-06-28)	1-7, 9-16, 18-31,33
Y	paragraphs [0052] - [0125]; figures 1-19 -----	8,17,32
Y	EP 0 289 868 A2 (INDUCTRAN CORP [US]) 9 November 1988 (1988-11-09)	8,17,32
A	column 5, line 4 - column 12, line 41; figures 1-11	1-7, 9-16, 18-31,33
A	WO 2008/051611 A2 (FARKAS LASZIO [US]) 2 May 2008 (2008-05-02) the whole document ----- -/--	1-33

Further documents are listed in the continuation of Box C.

See patent family annex.

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Date of the actual completion of the international search  22 October 2015	Date of mailing of the international search report  03/11/2015
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Hunckler, José
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## INTERNATIONAL SEARCH REPORT

International application No  
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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A	WO 2011/046400 A2 (KOREA ADVANCED INST SCI & TECH [KR]; CHO DONGHO [KR]; SUH NAM PYO [KR]) 21 April 2011 (2011-04-21) the whole document -----	1-33
A	EP 2 541 730 A1 (ALCATEL LUCENT [FR]) 2 January 2013 (2013-01-02) the whole document -----	1-33
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International application No PCT/US2015/023840
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