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(54) Title: ELECTRIC VEHICLE CHARGER DIAGNOSTIC EXTENSION CABLE

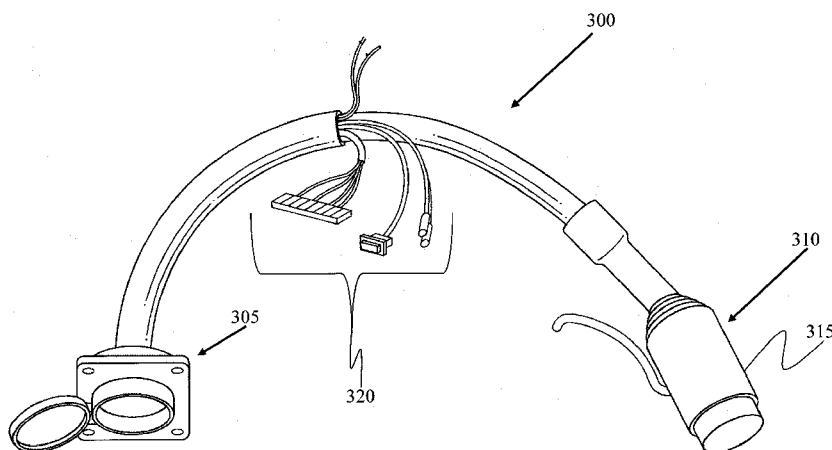


FIG. 3

(57) Abstract: An electric vehicle ("EV") charging cable apparatus is disclosed that includes a charging cable segment (300) having first and second ends (305, 310), the charging cable segment having a power line segment (610) and a data line segment (620, 630, 640, 645, 650); a first element (600) disposed at the first end of the charging cable segment, the first element configured to receive a direct current (DC) electric vehicle connector; a DC electric vehicle connector (605) disposed at the second end of the charging cable segment; and a tap coupled to at least one of the power line segment and the data line segment (320) so that the at least one of the power line segment and the data line segment are tapped for external access.



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A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - H02J 7/04 (2012.01) USPC - 320/109 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) IPC(8) -H02J 7/04 (2012.01) USPC - 191/12.4; 307/9.1, 10.1; 320/109; 361/87; 439/34, 353, 624; 700/295; 701/22; 702/63; 705/412; 715/772 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) PatBase, Google Patents		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,548,200 A (NOR et al) 20 August 1996 (20.08.1996) entire document	11, 17-20, 28
-		
Y		1-10, 12-16, 21-26, 29-32
Y	US 5,417,592 A (WEST) 23 May 1995 (23.05.1995) entire document	1-5, 8-10, 12, 29-32
Y	US 2006/0119365 A1 (MAKHIJA) 08 June 2006 (08.06.2006) entire document	6, 7, 13-16, 21-26, 31, 32
A	US 2009/0157365 A1 (HIGUCHI et al) 18 June 2009 (18.06.2009) entire document	1-26, 28-32
A	US 4,707,795 A (ALBER et al) 17 November 1987 (17.11.1987) entire document	1-26, 28-32
A	US 2010/0198751 A1 (JACOBUS) 05 August 2010 (05.08.2010) entire document	1-26, 28-32
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