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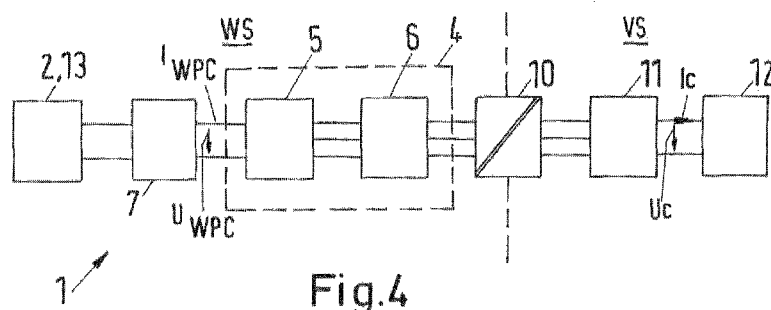
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(54) Title: A METHOD OF OPERATING AN INDUCTIVE POWER TRANSFER SYSTEM AND AN INDUCTIVE POWER TRANSFER SYSTEM



(57) Abstract: The invention relates to a method of operating an inductive power transfer system (1) for transferring power to a vehicle, wherein the inductive power transfer system (1) comprises a primary winding structure for generating an alternating electromagnetic field and a secondary winding structure for receiving the alternating electromagnetic field and generating an alternating current output voltage, wherein the alternating current output voltage is rectified and supplied to at least one energy storage element (12), wherein the rectified output voltage (U_C) is adjusted by varying a gap size of a gap between the primary winding structure and the secondary winding structure, wherein the gap size is adjusted to prepare and/or to initiate and/or to control an energy transfer process depending on charging characteristics of the at least one energy storage element (12). Furthermore, the invention relates to an inductive power transfer system for transferring energy to a vehicle.