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(54) Title: INDUCTIVE POWER TRANSFER WITH INDUCTIVE POWER TRANSFER PAD

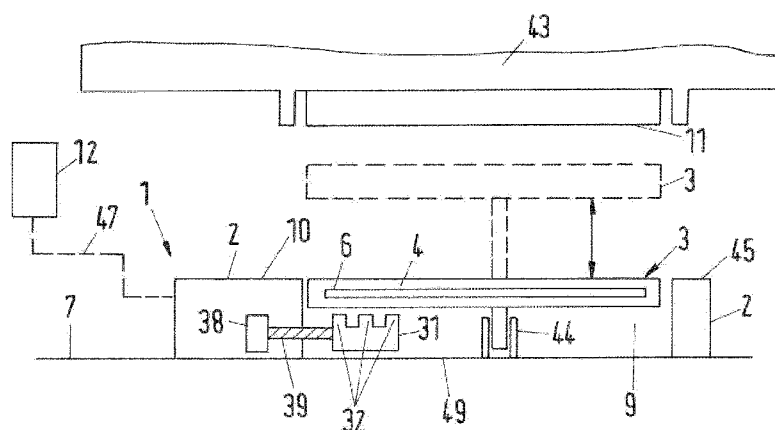


Fig.1

(57) Abstract: The invention relates to an inductive power transfer pad (1), in particular a transfer pad of a system (1, 11, 12) for inductive power transfer to a vehicle (43), comprising a stationary part (2) and a movable part (3), wherein the movable part (3) comprises a primary winding structure (6) for generating a magnetic or electromagnetic field while an electric current flows through windings of the primary winding structure (6), wherein the inductive power transfer pad (1) comprises at least one actuator (14; 44) for actuating motion of the movable part (3), wherein the movable part (3) is movable at least into a first direction by the at least one actuator (14; 44) so as to move between a retracted state and an extended state, wherein - the stationary part (2) comprises operating devices (38), which are electric and/or electronic devices adapted to operate the primary winding structure (6) so that the primary winding structure (6) generates the magnetic or electromagnetic field, wherein the operating devices (38) are electrically connected to the primary winding structure (6) and produce heat during operation, - the stationary part (2) comprises a cooling device (31) which is thermally coupled to the operating devices (38) and is adapted to transfer heat to an environment of the inductive power transfer pad (1), - the cooling device (31) is covered by the movable part (3) in the retracted state and the movable part (3) uncovers the cooling device (31) while being moved into the extended state.