

Title (en)
INDUCTIVE POWER TRANSFER SYSTEM

Title (de)
INDUKTIVES STROMÜBERTRAGUNGSSYSTEM

Title (fr)
SYSTÈME DE TRANSFERT D'ÉNERGIE INDUCTIF

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Abstract (en)
The present invention is concerned with an improved electrical insulation of an Inductive Power Transfer (IPT) system. According to the invention, a flat, two-dimensional conductor trace of a first coil of the IPT system is bent or shaped in a third dimension perpendicular to a coil plane encompassing the turns of the first coil, such that the edges of the conductor point away from a second, opposite coil of the IPT system. A geometric field grading achieved by such a conductor shape moves a direction and location of the electric field peaks occurring at the conductor edges away from the opposite coil of the IPT, and thus simplifies inter-coil insulation tasks.

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Citation (search report)

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