

Title (en)

DEVICE FOR SUPPLYING ENERGY AND FOR GUIDING A MOBILE OBJECT INDUCTIVELY

Title (de)

VORRICHTUNG ZUR INDUKTIVEN ENERGIEVERSORGUNG UND FÜHRUNG EINES BEWEGLICHEN OBJEKTES

Title (fr)

DISPOSITIF PERMETTANT D'ALIMENTER UN OBJET MOBILE EN ENERGIE ET DE LE COMMANDER PAR INDUCTION

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Application

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Abstract (en)

[origin: WO03086807A1] The invention relates to a device for supplying energy and for guiding a mobile object inductively. Said device comprises a primary inductance, in the form of a conductor loop (3), which extends along a designated displacement path of the object, a second inductance, which is located on the object and can be magnetically coupled to the primary inductance for transmitting energy, several receiving inductances, which are located on the object and emit measuring signals dependent on the magnetic field of the primary inductance and an evaluation device, which determines a measurement for the position of the object in relation to the conductor loop from the measuring signals. To permit data communication, the receiving inductances (5;12) are connected to a data receiver (21,24,27,18,16), which contains elements (24) for extracting a data signal from the output voltage of at least one of the receiving inductances. A data line (4a, 4b) is positioned along the designated displacement path of the object and is coupled inductively to at least one receiving inductance during the displacement of the object.

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