

Title (en)
MODULE WITH AN ANGLE SENSOR TECHNOLOGY, CONTACTLESS ENERGY TRANSMISSION AND CONTACTLESS INFORMATION TRANSMISSION

Title (de)
MODUL MIT WINKELSENSORIK, BERÜHRUNGSLOSER ENERGIEÜBERTRAGUNG UND BERÜHRUNGSLOSER INFORMATIONENÜBERTRAGUNG

Title (fr)
MODULE A SYSTEME CAPTEUR D'ANGLE, A TRANSMISSION D'ENERGIE SANS CONTACT ET A TRANSMISSION D'INFORMATIONS SANS CONTACT

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Application
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Abstract (en)
[origin: WO0123243A1] The inventive model with an angle sensor technology, energy transmission and information transmission consists of at least two printed circuit boards (1, 2). One printed circuit board (1) forms the stator with regard to the angle sensor technology and the remaining printed circuit board (2) forms the rotor with regard to the angle sensor technology. The stator, in addition to the primary coil for the angle sensor technology, contains an exciting coil for the energy transmission and the information transmission. The rotor, in addition to the secondary coil of the angle sensor technology, contains a receiver coil for the energy transmission and the information transmission. The exciting coil and the receiver coil are arranged on the respective printed circuit board in a circular manner in such a way that a coupling for the exciting coil and the receiver coil results, whereby said coupling is independent from the angle. The exciting coil and the receiver coil are used for the energy as well as for the information transmission. The energy is typically transmitted by means of a medium frequency of 25 kHz for instance. A modulation is superimposed over said medium frequency for the information transmission. According to the invention, various modulation methods, such as HF modulation (high-frequency modulation), amplitude modulation or phase modulation for instance, are possible.

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