Title (en)

INDUCTIVE POSITION DETERMINATION DEVICE FOR DETERMINING A POSITION OF A MOVABLY MOUNTED DRIVE COMPONENT OF AN AT LEAST PARTIALLY ELECTRICALLY DRIVEN VEHICLE, AND METHOD OF MANUFACTURE

Title (de)

INDUKTIVE POSITIONSBESTIMMUNGSVORRICHTUNG ZUR BESTIMMUNG EINER POSITION EINES BEWEGLICH GELAGERTEN ANTRIEBSBAUTEILS EINES ZUMINDEST TEILWEISE ELEKTRISCH ANGETRIEBENEN FAHRZEUGS UND HERSTELLUNGSVERFAHREN

Title (fr)

DISPOSITIF DE DÉTERMINATION DE POSITION INDUCTIVE POUR LA DÉTERMINATION D'UNE POSITION D'UN COMPOSANT D'ENTRAÎNEMENT MONTÉ MOBILE D'UN VÉHICULE AU MOINS PARTIELLEMENT ENTRAÎNÉ ÉLECTRIQUEMENT, ET PROCÉDÉ DE FABRICATION

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Application

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Abstract (en)

[origin: WO2022238238A1] The invention relates to an inductive position determination device (38), in particular an inductive angular position determination device, for determining a position and/or a movement of a movably mounted drive component (10), comprising: the drive component (10) which is formed from at least substantially at least electrically nonconductive materials, and an encoder element (12) which is in particular at least integrated in the drive component (10) and/or mounted on the drive component (10), moves along with a movement of the drive component (10) and is formed from a metallic, at least substantially nonmagnetic and at least substantially electrically conductive material, wherein the encoder element (12) is provided for interacting with a sensor module (14) for the purpose of position determination, and wherein a density of the material of the encoder element (12) is substantially greater than an, in particular average, density of the drive component (10).

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