

Title (en)

SYSTEM AND METHOD FOR CONTROLLING THE CHANGE IN MODE OF AN INFINITELY VARIABLE TRANSMISSION IN PURELY ELECTRICAL MODE

Title (de)

BEREICHSUMSCHALTVORRICHTUNG UND -VERFAHREN FÜR EIN STUFENLOSES GETRIEBE IM REIN ELEKTRISCHEN ANTRIEB

Title (fr)

SYSTEME ET PROCEDE DE COMMANDE DE CHANGEMENT DE MODE D'UNE TRANSMISSION INFINIMENT VARIABLE EN MODE PUREMENT ELECTRIQUE

Publication

EP 2274189 A1 20110119 (FR)

Application

EP 09750034 A 20090504

Priority

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- FR 0852975 A 20080505

Abstract (en)

[origin: US2011125355A1] A system for controlling change in mode of an infinitely variable transmission including a first operation mode at high torque at high speed and a second operation mode at high torque at low speed, fitted to a motor vehicle that includes at least two electric machines, with at least one internal combustion engine. The infinitely variable transmission connected mechanically to the electric machines and to the internal combustion engine determines the internal combustion engine rotation speed setpoint; calculates the difference between the internal combustion engine rotation speed setpoint and the internal combustion engine rotation speed measurement; determines torque of the first electric machine to determine a torque setpoint for the first electric machine as a function of the difference between the rotation speed setpoint of the internal combustion engine and the measured rotation speed of the internal combustion engine; determines a torque setpoint for the second electric machine as a function of the torque setpoint of the first electric machine and the driver's demand for torque. The control system can control the second electric machine so that the change in mode can be performed while the vehicle is being propelled, before and after the change in mode, under sole action of at least one electric machine.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2009141553A1

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