

Title (en)

DRIVE TRAIN OF AN ALL-WHEEL DRIVE VEHICLE COMPRISING CLUTCHES AND METHOD FOR CONTROLLING AND REGULATING A DRIVE TRAIN

Title (de)

ANTRIEBSSTRANG EINES ALLRADFAHRZEUGES MIT KUPPLUNGEN UND VERFAHREN ZUM STEUERN UND REGELN DER KUPPLUNGEN DES ANTRIEBSSTRANGES

Title (fr)

ENSEMBLE TRANSMISSION D'UN VEHICULE TOUTES ROUES MOTRICES AVEC EMBRAYAGES ET PROCEDE POUR COMMANDER ET REGULER LES EMBRAYAGES DE CET ENSEMBLE TRANSMISSION

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Application

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Abstract (en)

[origin: WO2005035295A1] The invention relates to the drive train (1) of an all-wheel drive vehicle comprising at least two driven vehicle axles (4, 5), a main transmission (3) for obtaining different ratios of transmission interposed between a drive machine (2) and the vehicle axles (4, 5), and three controlled and regulated friction clutches (k_VA, k_HA_L, k_HA_R). A first clutch (k_VA) is interposed between the main transmission (3) and a first vehicle axle (4). A second clutch (k_HA_L) and a third clutch (k_HA_R) are interposed between a final drive (7) and a drive wheel (5A, 5B) of the second vehicle axle (5). The transmissibilities of the clutches (k_VA, k_HA_L, k_HA_R) can be adjusted via an actuator system (8) and a driving torque is distributed between the driven vehicle axles (4, 5) depending on the adjusted transmissibilities of the clutches (k_VA, k_HA_L, k_HA_R).

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