Title: TRANSMISSION CONTROL SYSTEM IN VEHICLES

Abstract: The present invention relates to a Electronic Control Unit (ECU, 120), a method and a computer program product for the control of a drive train (1) for a hybrid vehicle as well as a drive train comprising such a control device. The hybrid vehicle comprises an upstream located Internal Combustion Engine (ICE, 2) which is connected to an Electronic Motor/Generator (EMG, 5) via a Master Clutch (MC, 6). The EMG is connected to the wheels (100) via a Mechanical Transmission (MT, 8) comprising synchronization. The ECU is programmed to control the MC and the MT when shifting from a generating mode, in which the ICE is powering the EMG at or near standstill, to a driving mode in such a way that at least a part of the inertial energy liberated when retarding the EMG in order to synchronize the rotational speed of the EMG and the MT is transferred to the wheels by using the synchronization in the MT to retard the EMG and transfer of power to the wheels.
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