

Title (en)
MOTOR VEHICLE AUTOMATIC TRANSMISSION

Title (de)
AUTOMATISCHES SCHALTGETRIEBE EINES KRAFFFAHRZEUGES

Title (fr)
TRANSMISSION AUTOMATIQUE D'UN VEHICULE AUTOMOBILE

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Application
EP 00958669 A 20000811

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Abstract (en)
[origin: WO0113012A1] The invention concerns a transmission system wherein, when a torque to be transmitted by the transmission device exceeds the value transmissible by a direct drive clutch (18), on account of the application force defined by the centrifugal counter-weights (29), said clutch slips, the planet pinion carrier (13) coupled to the output shaft (2b) slows down, the planetary gear (9) slows down further and ends up being immobilised by a free wheel (16). This causes a reaction force of the teeth (PAC) in the ring (8), which is urged, via an axial stop (B2) to release the clutch (18) so as to eliminate therein all friction while the resulting reduction operates. Said axial motion of the ring (8) is enabled by a coupling device (17) which transmits the engine (5) torque while enabling the member (17a) bearing the ring (8) to slide relative to the input member (17b). The coupling device (17) is a frictionless device, for example operating by elastic material deformation. The invention is useful for enhancing smooth engagement of ratio shifts by eliminating in the axial motion frictions which increase with the transmitted torque, often non-linearly.

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