Title (en)

CONTINUOUSLY VARIABLE RATIO TRANSMISSION SYSTEM

Title (de)

STUFENLOSES GETRIEBESYSTEM

Title (fr)

SYSTEME DE TRANSMISSION A RAPPORT A VARIATION CONTINUE

Publication

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Application

EP 05784363 A 20050920

Priority

- GB 2005003622 W 20050920
- GB 0420865 A 20040920

Abstract (en)

[origin: GB2418235A] A compact CVT comprises coaxial system input and output shafts 16,20, a continuously variable ratio transmission unit (variator) V connected to the input shaft 16 and having a coaxial variator output shaft 18 drivably connected to an input sun gear S1 of a mixing planetary gear train G1. The mixing planetary gear train G1 has first planet gears P1 engaged with the input sun gear S1 and mounted on a planet carrier C1 which is drivably connected to the system input shaft 16. Second plant gears P2 are also mounted on the planet carrier C1 and are arranged to rotate with the first planet gears P1 and drivingly engaged with an output sun gear S2 connected to an output shaft 20. A ratio between the number of teeth on the input sun gear S1 divided by the number of teeth on the first planet gears P1 is set to be greater than the ratio between the number of teeth on the output sun gear S2 divided by the number of teeth on the second planet gears P2. This ensures the vanator always transmits less than 100% of the engine power, which allows the variator to be made compact.

IPC 8 full level

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CPC (source: EP)

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