

Title (en)

POWER CONVERTER FOR AN ELECTRICALLY-COMPENSATED CONSTANT SPEED DRIVE.

Title (de)

ELEKTRISCH AUSGEGLICHENE KRAFTVERÄNDERUNG ZUM ANTRIEB MIT BESTÄNDIGER GESCHWINDIGKEIT.

Title (fr)

CONVERTISSEUR DE PUISSANCE POUR UN ENTRAÎNEMENT A VITESSE CONSTANTE COMPENSE ELECTRIQUEMENT.

Publication

EP 0250552 A4 19880824 (EN)

Application

EP 87900507 A 19861210

Priority

US 81239685 A 19851223

Abstract (en)

[origin: WO8703928A1] Electrically-compensated constant speed drive, CSD, (10) which includes a speed summer (18) having first and second input shafts (20, 36) and one output shaft (22). The first input shaft (20) is coupled to a variable speed prime mover (16) and the output shaft (22) develops a constant speed motive power. A speed-compensating permanent magnet machine (PMM2) couples to the second input shaft (36) of the speed summer (18). A control permanent magnet machine (PMM1) couples to the first input shaft (20) of the speed summer (18). A power converter (30) interconnects the power windings (70, 72) of these two permanent magnet machines (PMM1, PMM2). The power converter (30) comprises first and second bi-directional AC/DC converters (54, 56), a bi-directional DC/DC converter (58), and a circuit (44) for controlling the converters (54, 56, 58) so as to maintain the output shaft (22) of the speed summer (18) at a constant, desired speed.

IPC 1-7

F01D 15/10; H02P 9/04

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- No relevant documents have been disclosed.
- See references of WO 8703928A1

Designated contracting state (EPC)

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