

Title (en)

ARRANGEMENT FOR DRIVING A LOAD ELEMENT

Title (de)

ANORDNUNG ZUM ANTRIEB EINES LASTELEMENTES

Title (fr)

SYSTEME D'ENTRAINEMENT D'UN ELEMENT DE CHARGE

Publication

**EP 1779504 B1 20100331 (DE)**

Application

**EP 05784885 A 20050808**

Priority

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Abstract (en)

[origin: WO2006018175A1] The aim of the invention is to provide an arrangement for driving a load element (7) (e.g. a transfer belt in an electrographic printing or copying device) which operates at a constant load angle even when the load acting upon the drive by the load element is changed. For this purpose, a drive motor (1) is mounted on the drive shaft (5) of the load element and determines the speed of the driving motor of the load element. A torque sensor (2) is mounted on the drive shaft (5) and outputs a torque signal which is proportional to the torque. When the measured torque signal deviates from a desired value, an auxiliary motor (4) or a brake generates an auxiliary torque which is added to the torque generated by the drive motor (1) so that the load angle of the drive motor (1) remains constant. In an embodiment, the phase position between the magnetic field driving the motor shaft and the position of the motor shaft is maintained constant despite change of the load.

IPC 8 full level

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