

APPARATUS AND METHOD FOR REDUCING SPINDLE POWER AND
ACOUSTIC NOISE IN A DISK DRIVE

ABSTRACT

An apparatus and method for reducing spindle power and acoustic noise in a self-commutating brushless d.c. motor for a disk drive (2) wherein the motor includes a rotatable stator having a position expressed in terms of a commutation angle having a magnitude and direction. The method (38-48) senses the spindle power consumption of the motor as a function of the commutation angle of the motor, and changes said commutation angle until an optimum commutation angle is determined that yields minimum power consumption.

Fig. 3

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