ACOUSTIC IMPROVEMENT FOR SEEK OPERATION IN HARD DISK DRIVE

Abstract of the Disclosure

A method of reducing an acoustic noise generated during a seek in a disc drive comprises retrieving a stored velocity profile upon receiving a command to seek. Then computing a voice coil motor current profile based on the retrieved velocity profile and changing the computed voice coil motor current profile to a sine wave profile, and applying the changed voice coil motor current profile to the voice coil motor to complete the seek with a reduced acoustic noise.

Fig. 2