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ABSTRACT

METHOD FOR DETECTING SERVO ERRORS FROM A DISK

A method for detecting a servo error and a method for detecting tilt error for a disk are provided. A method of detecting a servo error of a recording and/or reproducing apparatus for recording data on and reproducing data from a disk in a data area of which reference patterns having a uniform size are recorded, the method comprising: determining a first magnitude of the reference patterns recorded on at least two positions separated from each other and a second magnitude of a reproducing signal corresponding to the reference patterns; and detecting the servo error in accordance with a ratio of the first magnitude to the second magnitude. A method of detecting a tilt error of an apparatus for reproducing data from an optical disk in accordance with a subtraction signal RF_pp having a first reference signal and a second reference signal which are recorded to deviate from a center of a track in opposite directions and which have the same pattern, the method comprising: determining a first level lvfo1 of the first reference signal and a second level lvfo3 of the second reference signal from a subtraction signal RF_pp reproduced from the optical disk; determining a balance value K1 according to the following equation: $K_1 = (lvfo1 - lvfo3) / (lvfo1 + lvfo3)$; and detecting the tilt error based upon the balance value K₁.

FIG. 6