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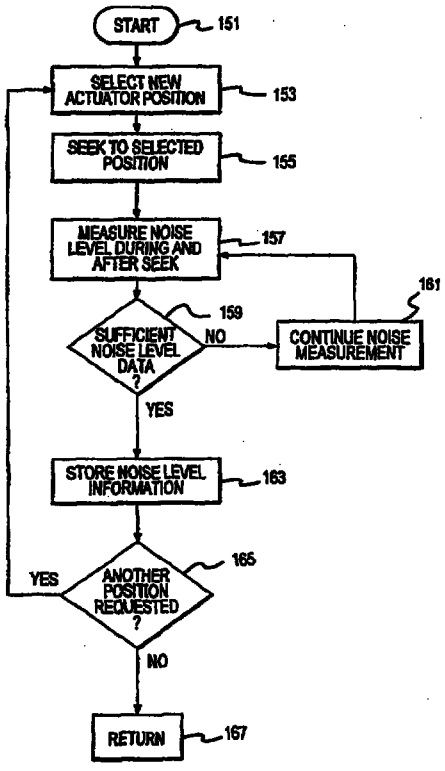
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(54) Title: APPARATUS AND METHOD FOR REDUCTION OF IDLE-MODE ACOUSTICS IN A DISC DRIVE



(57) Abstract: An apparatus and method for minimizing audible noise in disc drives during idle periods uses a low-noise velocity profile and/or low noise position profile to govern the movement of a seeking actuator assembly. The low-noise velocity profile is selected to govern all actuator movement and seeking during idle periods, i.e., during internal drive housekeeping operations. The noise level associated with each actuator position in the drive is preferably determined through actual tests and/or modeling and is utilized to determine the low noise profiles. The relative amount of time the actuator assembly spends in the relatively noisier actuator assembly positions may also be optimally reduced thus reducing the overall amount of noise generated by an idle disc drive.

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