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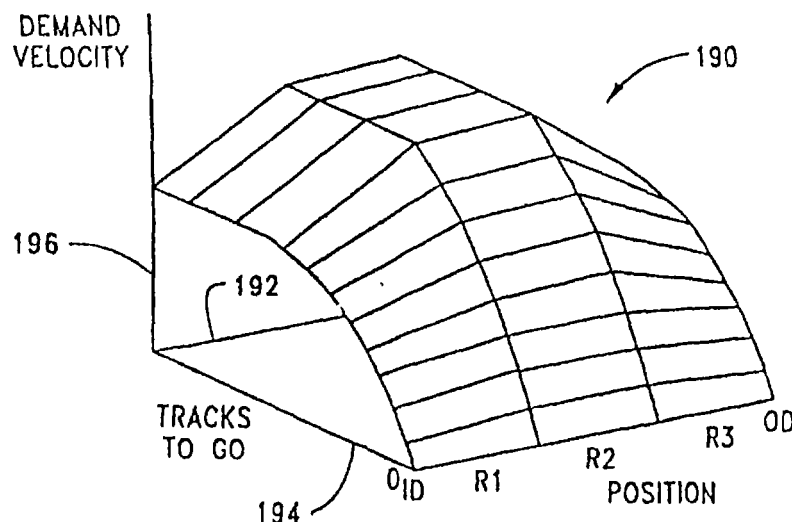


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(54) Title: ADAPTING SEEK VELOCITY PROFILE TO DESTINATION TRACK LOCATION



(57) Abstract

Apparatus and method for improved disc drive data storage capacity and seek performance. A disc drive (100) includes a rotatable disc (106) with a recording surface on which a plurality of tracks are defined and an actuator (110) which supports a head (120) adjacent the tracks. A servo circuit (130) uses a velocity profile (150, 180, 190, 330, 340) to position the head adjacent a destination track, with the servo circuit adaptively selecting the velocity profile in relation to the physical location of the destination track. The servo circuit preferably uses a reduced maximum velocity and a decreased deceleration rate when the deceleration track is adjacent an innermost or outermost diameter of the disc, thereby reducing the risk of damage as a result of contact between the actuator and a latch/stop (122) used to limit radial excursion of the head.