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(54) Title: IMPROVED SUSPENSION DESIGN FOR A HEAD GIMBAL ASSEMBLY

(57) Abstract

A gimbal spring (38) for supporting a slider (20) relative to a disc (12) surface. The gimbal spring (38) includes opposed flexure arms (48, 50) extending from a base of the gimbal spring (38). the flexure arms (48, 50) are designed to support the slider (20) coupled to the gimbal spring (38) via a mounting tab (54) to pitch and roll relative to the disc (12) surface. The flexure arms (48, 50) are formed of elongated members extending from the base to define a fixed end and an extended end. The flexure arms (48, 50) include an intermediate portion between the fixed end and the extended end having a reduced mass, which is less than the fixed end and extended end. The reduced mass enhances the operation characteristics of the gimbal spring (38).

