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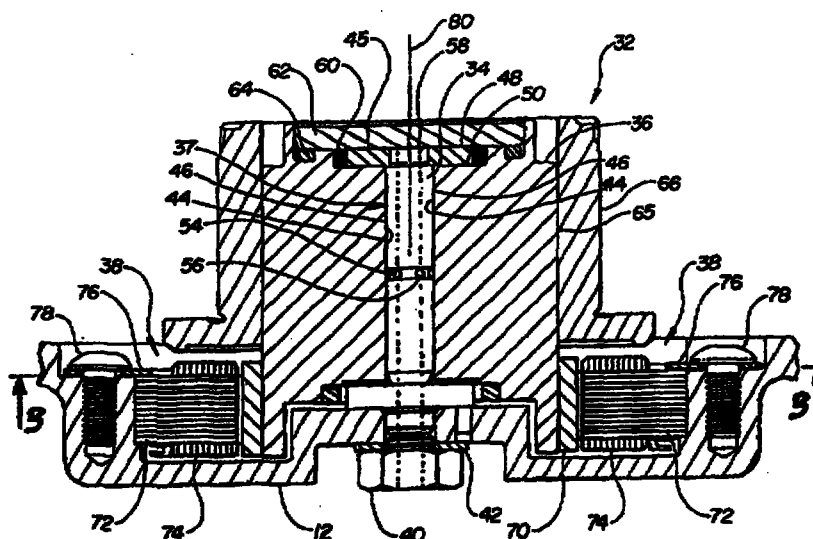
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(21) International Application Number: PCT/US96/17025 (22) International Filing Date: 25 October 1996 (25.10.96) (30) Priority Data: 60/008,124 30 October 1995 (30.10.95) US (71) Applicant (for all designated States except US): SEAGATE TECHNOLOGY, INC. [US/US]; 920 Disc Drive, Scotts Valley, CA 95066 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): KHAN, Raquib, U. [BD/US]; 3703 Reflections Drive, Pleasanton, CA 94566 (US). RUDD, Gregory, I. [US/US]; 1496 Dolphin Drive, Aptos, CA 95003 (US). BORELIS, Louis [US/US]; 1361 Sawtooth Drive, Hollister, CA 95023 (US). LEUTHOLD, Hans [CH/US]; 849 Gharkey Street, Santa Cruz, CA 95060 (US). HEINE, Gunter, K. [DE/US]; 143 Driftwood Court, Aptos, CA 95003 (US). (74) Agents: BRUSH, David, D. et al.; Westman, Champlin & Kelly, P.A., International Centre, Suite 1600, 900 Second Avenue South, Minneapolis, MN 55402-3319 (US).		(81) Designated States: CN, DE, GB, JP, KR, SG, US. Published <i>With international search report.</i>

(54) Title: **DISC DRIVE SPINDLE MOTOR HAVING HYDRO BEARING WITH LUBRICANT OPTIMIZED WITH DISC DRIVE COMPATIBLE ADDITIVES**



(57) Abstract

A disc drive (10) includes a housing (12), a central axis (80), a stationary member (34) which is fixed with respect to the housing and coaxial with the central axis, and a rotatable member (36) rotatable about the central axis with respect to the stationary member. A stator (38) is fixed with respect to the housing. A rotor (70) is supported by the rotatable member and is magnetically coupled to the stator. At least one data storage disc (16) is attached to and is coaxial with the rotatable member. A hydro bearing (37) interconnects the stationary member and the rotatable member and includes a blend of a base fluid (84) having a viscosity index of at least 110, an anti-oxidant additive, an anti-corrosive additive and an anti-wear additive, which are effective for resisting catalytic degradation in the hydro bearing.