

ABSTRACT OF THE DISCLOSURE

A Brushless DC motor for disc drive is disclosed.

In the motor, a stator insulator is provided on a stator or a support portion, thus retaining a rotor unmovably in a axial direction and concentering a disc automatically.

A brushless DC motor for a disc drive comprising: a base; a coil-wound stator secured to the upper portion of the base; one or more first stoppers secured to said stator; a shaft defined as a rotation axis of said motor; a bearing system forcibly inserted into a bore formed in the upper portion of the base to receive the shaft so that said shaft rotates coaxially with said stator;

a rotor having a hub, a cylindrical wall portion extending downward at the fringe of said hub, said rotor being secured to said shaft via said hub, one or more magnets secured to the inner circumferential face of said cylindrical wall portion of said rotor so that said magnets face said stator with an air gap therebetween; and a second stopper secured to said rotor, in such a way that said first stopper blocks said second stopper and said rotor is retained in the axial direction.

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