

COIL WIRE LUBRICANT FOR USE IN MAGNETIC DISK DRIVES

ABSTRACT

A coil assembly for disk drive components is presented which includes a coil winding free of lubricants that cause stiction problems during the operation of the disk drive assembly. An actuator coil and spindle motor winding are disclosed which include a conductor (80), an insulating layer (82) over the conductor, a bond coat (84) overlying the insulating layer (82), and a lubricant coating (86) on the insulating layer. The lubricant coating is a hydrocarbon based oil having a molecular weight within ranges that will not volatilize and condense on the surface of the disks in the drive.

Fig. 5a

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