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ABSTRACT

ROTATING MAGNETIC STORAGE DEVICE

The present invention mounts a contact recording transducer/suspension assembly over a magnetic recording disk such that the rotation of the disk creates an additional dynamic loading to counteract the lift-off forces generated by rotation of the disk. As the rotation rate of the disk is increased and lift-off forces grow, so do the offsetting dynamic loads created by the transducer/suspension assembly. Optionally, the cross section of the transducer/suspension assembly is modified to further improve this dynamic loading effect.

The present invention mounts the transducer/suspension assembly in a contact recoding disk file so as to place the assembly in compression once disk rotation is initiated. The assembly is mounted so that the frictional force between the assembly and the disk "pushes" the assembly against its mounting instead of applying a "pulling" force on the assembly.