# METHOD AND CIRCUIT FOR DRIVING HARD DISK DRIVE SPINDLE AND ACTUATOR MOTORS


## ABSTRACT OF THE DISCLOSURE

A system for driving hard disk drive spindle and actuator motors is disclosed. The system comprises a spindle motor control circuit (120), a spindle motor power circuit (210), an actuator motor control circuit (110), and an actuator motor power circuit (210). The spindle motor control circuit (120) and the actuator motor control circuit (110) are formed on a first substrate (100). The spindle motor power circuit (210) and the actuator motor power circuit (220) are formed on a second substrate (200). The system also includes at least one disk (22) attached to a rotatable spindle (21), a spindle motor (400) for receiving and being energized by the spindle motor power signals, and for controlling the rotation of the spindle (21), a plurality of disk read heads (12) adjacent to the disks (22), and an actuator motor (300) for receiving and being energized by the actuator motor power signals, and for controlling the position of the disk read heads (12).


Figure 1