

RETRACT CIRCUIT AND RETRACT METHOD, AND DISK DRIVE ABSTRACT

When drive supply voltage V_{cc} is applied, a retract circuit charges a retract condenser C_r with boosted voltage V_{up} ($=3 \times V_{cc}$) generated by a booster circuit (26). Then, if the drive supply voltage V_{cc} is cut off and a VCM driver (12) stops, the retract circuit (13) detects power-off with a power OFF sense circuit (21), and provides retract delay time T_d by a retract delay circuit (22). Furthermore, when the retract delay time T_d elapses after the drive power supply is turned off, the retract driver (23) switches switching circuits (24) and (25) on, discharges the retract condenser C_r charged at the boosted voltage V_{up} , supplies discharge current to a voice coil (5a), and retracts a head assembly.

FIG 3