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device includes a current source circuit arranged to provide a large current in a predetermined period when a magnetic head is driven, and a braking circuit arranged to provide a voltage to reduce a current applied to a coil of a head driving coil. The current supplied by the current source circuit flows through the head driving coil and the magnetic head is driven. When the magnetic head is driven, it is controlled in such a way that the large current flows through the head driving coil in the predetermined period, and that the voltage supplied by the braking circuit is larger than a potential generated at the head driving coil. In this conventional apparatus, however, when the potential at the head driving coil is increased in response to an abrupt increase in a current supplied to the head driving coil, the driving force to the head driving coil is suddenly increased. Therefore, in some cases, the magnetic head is damaged.

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Another conventional head driving device is disclosed in Japanese Patent Publication Laid-Open No. Sho 63-213411. This conventional apparatus is arranged to include a control circuit for performing on-off control to intermittently supply the large current in the predetermined period, a current detecting circuit for detecting a current flowing in the coil and voltage detecting circuit for detecting a potential of the coil. The potential is reduced when the current supplied to the coil is abruptly increased, and a value obtained by adding a predetermined amount to the potential is compared with a predetermined threshold value by the control circuit so that the current supplied to the coil is reduced when the large current is intermittently supplied. In the apparatus described above, however, the drive of the magnetic head is interrupted when the potential of the coil is increased by a large amount, and the current supplied to the coil is

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reduced

