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Kawasaki-shi (JP)(57) **ABSTRACT**

An integrated circuit for controlling an ignition system including a coil. The integrated circuit includes a transistor configured to control a current flowing through the coil, a first line coupled to a control electrode of the transistor, a second line coupled to an electrode of the transistor on the ground side thereof, a control circuit configured to control on and off of the transistor based on a voltage level of the first line, and a Zener diode having a cathode coupled to the first line and an anode coupled to the second line. The Zener diode has such a capacitance that, when a first signal, and a second signal of a higher frequency, are inputted to the first line, the control circuit controls the on and off of the transistor in response to the first signal irrespective of the second signal.

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