



METAL OBJECT DETECTING DEVICE

ABSTRACT OF THE DISCLOSURE

The present invention provides a detecting device which detects a metal object based on a characteristic of a transient phenomenon of an RL circuit.

The detecting device comprises an RL series circuit which comprises a coil for detecting an object of examination, wherein said coil is positioned such that it can be placed near an object which is to be examined and may comprise said object of examination, and a resistor which is connected to said coil in series; and a processing circuit which, based on a reference characteristic of a transient phenomenon of said RL circuit, detects a change in a characteristic of a transient phenomenon which occurs when a DC voltage is applied to said RL circuit, and, based on the detection result, outputs an examination result which indicates whether or not said object of examination exists.