

FOREIGN OBJECT DETECTION APPARATUS

ABSTRACT OF THE DISCLOSURE

A foreign object detection apparatus has at least one pair of first and second members which are members configuring a space, in which bills to be processed are deposited, and disposed to face each other to push and sandwich the bills therebetween, the first member provided with antennas made of a copper foil and applied with a voltage from a voltage applying unit and the second member made of a conductive material and grounded to configure a virtual capacitor; a measuring unit which is disposed to measure a voltage generated according to electrostatic capacitance of the virtual capacitor; and a judging unit which judges the presence or not of a foreign object according to a difference between a prescribed reference signal and a changed output voltage from the measuring unit depending on a change in electrostatic capacitance of the virtual capacitor due to the foreign object included in the bills.

FIGURE 3