

ARC DETECTION DEVICE, BREAKER, POWER CONDITIONER, SOLAR
PANEL, SOLAR-PANEL-ATTACHED MODULE, JUNCTION BOX, ARC
DETECTION SYSTEM, AND ARC DETECTION METHOD

5 [ABSTRACT]

10 An arc detection device (10) that detects an arc fault that
occurs in a transmission line (L1) connecting a DC power supply (31)
that generates DC power and a power converter (50) that converts
the DC power to AC power, includes: a first determination unit (11)
that determines whether or not there is a possibility of an arc fault
occurrence according to current flowing in the transmission line (L1);
a shutoff unit (12) that temporarily stops the flow of current in the
transmission line (L1) when the first determination unit (11)
determines there is a possibility of an arc fault occurrence; and a
15 second determination unit (13) that determines whether or not an
arc fault has occurred according to an input voltage, of the power
converter (50) supplied from the DC power supply (31), after lifting
temporary stoppage of the flow of current in the transmission line
(L1).

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Fig. 1