

# ARC DETECTION SYSTEM, ARC DETECTION METHOD, AND PROGRAM

## [ABSTRACT]

5           An arc detection system (100) includes a first obtainment unit (11), a second obtainment unit (12), and a determination unit (14). The first obtainment unit (11) obtains a measurement result of current (I1) flowing in a power line (L1) to which power is supplied from a power supply (2) or a measurement result of voltage (V1) in  
10 the power line (L1). The second obtainment unit (12) obtains fluctuation information about a fluctuation in a load (31) included in a device (3) connected to the power line (L1). The determination unit (14) determines whether or not an arc fault has occurred in the power line (L1) based on components in a specific frequency band of  
15 the measurement result obtained by the first obtainment unit (11) and the fluctuation information obtained by the second obtainment unit (12).

Fig. 1