

ABSTRACT

METHOD AND DEVICE FOR JUDGING GAS LEAKAGE, AND ELECTRONIC DEVICE

The present disclosure relates to a method and a device for judging gas leakage, and an electronic device. The method for judging the gas leakage includes acquiring methane concentration data collected by monitoring devices, and generating a first function corresponding to the methane concentration data, wherein the monitoring devices are distributed in adjacent underground spaces of a gas pipeline network; acquiring a change rule of methane concentration in an inspection well during biogas accumulation, and generating a second function of the methane concentration changing with time; calculating a first correlation coefficient between the first function and the second function, and judging whether the first correlation coefficient is greater than a first preset threshold; acquiring a third function of gas consumption changing with time if the first correlation coefficient is less than the first preset threshold; calculating a second correlation coefficient between the first function and the third function, and judging whether the second correlation coefficient is less than a second preset threshold; and judging whether the gas leakage occurs based on the methane concentration data if the second correlation coefficient is greater than the second preset threshold.

Fig.1