

## INDOOR AIR CLEANING SYSTEM WITH DISCONNECTION DETECTING AND PREVENTING MECHANISM

### ABSTRACT OF THE DISCLOSURE

An indoor air cleaning system with disconnection detecting and preventing mechanism includes a gas filtration device and a cloud computing server. The gas filtration device is disposed in an indoor field and including a fan, a filter element, a gas detector and a driving control element. The gas detector detects air pollution, outputs air pollution information. The cloud computing server receives the air pollution information via IOT communication, stores the air pollution information to form a big data database, performs an intelligence computing for comparison based on the big data database, and issues a control command to enable the fan. When IOT communication is judged as disconnected, the gas detector autonomously computes and compares the air pollution information and issues the control command to enable the fan, thereby reaching a gas state of the indoor field to a cleanroom class with a level of air pollution close to zero.

FIG. 11