

INDOOR AIR CLEANING SYSTEM

ABSTRACT OF THE DISCLOSURE

An indoor air cleaning system is disclosed and includes gas detection modules, an air cleaning device, and a central control and regulation device. The gas detection module includes a microcontroller and a central control communication interface component. The microcontroller processes air pollution data and outputs regulation signals. The air cleaning device includes a fan, a filtering element and a driving control component. The central control and regulation device communicates through wired or wireless communication, providing control commands to the gas detection modules. The central control and regulation device controls the fan to guide the air pollution through the filtering element, and the indoor air quality is maintained based on the output pollution data. Consequently, the gas state reaches the air pollution data targeted by the gas detection modules based on the PM2.5 particle count accumulated in 24 hours, so as to meet a clean room requirement of ZAPClean Room 1~9.

FIG. 2A