

PARTICLE DETECTING MODULE

ABSTRACT OF THE DISCLOSURE

A particle detecting module is provided and includes a detection accuracy enhancing structure. The detection accuracy enhancing structure comprises an anti-scatter structure and two stray light suppression treatment structures. The anti-scatter structure is disposed in the gas-inlet groove of the base corresponding to a projection area of the laser component. The two stray light suppression treatment structures are respectively arranged in the light trapping region and the gas-inlet groove corresponding to the projection area of the laser component. The light trapping region includes the first light trapping structure with geometry shape and the second light trapping structure with geometry shape. When the light beam emitted from the laser component is reflected to the light trap region and the gas-inlet groove, the anti-scatter structure and the two stray light suppression treatment structures reduce a stray light directly reflected to the particulate sensor, so as to enhance the detection accuracy.

FIG. 8