

ABSTRACT

Disclosed is a gas treating device capable of electrically collecting dust and of decomposing odors and other matter by plasma. In order to downsize the gas treating device, a plasma generating device (40) is integrally incorporated into an ionization part (32) in a casing (20). The ionization part (32) is provided with an ionization line (35), and a columnar portion of a negative electrode member (37) having a cross section in the shape of a *katakana* character "コ" constitutes a counter electrode (36). The plasma generating device (40) includes a discharge electrode (41) which shares the counter electrode (36) with the ionization line (35). When an air purifying device (10) is in operation, dust of relatively small size in room air is electrically charged by discharge between the ionization line (35) and the counter electrode (36), and an electrostatic filter (33) entraps and collects the electrically charged dust. A plasma of low temperature is generated by streamer discharge between the discharge electrode (41) and the counter electrode (36), and harmful substances and odorous substances in the room air are decomposed by an activated species contained in the generated low-temperature plasma.