

Abstract

ELECTROSTATIC PRECIPITATOR

Provided is an electrostatic precipitator which not only has a wide dust-collecting range and high dust-collecting performance but also can be made smaller and thinner. The electrostatic precipitator 1 is constructed by mounting an ionization unit 3 and a dust-collecting unit 4 onto a case 2. The dust-collecting unit 4 is configured with a high-voltage electrode 5 and a dust-collecting plate 6. An ionizer 30 of the ionization unit 3 is a direct-current ionizer, the high-voltage electrode 5 is covered with an insulator 51, and the dust-collecting plate 6 is covered with an insulator 61. Direct-current voltages of the same polarity are applied from a power source 10 to the ionizer 30 and the high-voltage electrode 5, and a direct-current voltage of a different polarity from that of the voltages applied to the ionizer 30 and the high-voltage electrode 5 is applied to the dust-collecting plate 6.

[Figure 2]