

Abstract

An electrostatic precipitator 1 has a structure in which an ionization unit 3 and a dust collection unit 4 are assembled to a cover 2. The dust collection unit 4 is formed by a high-voltage electrode 5 and a dust collection board 6. An ionizer 30 of the ionization unit 3 is a direct current ionizer, and the high-voltage electrode 5 is covered with an insulator 51. The dust collection board 6 is formed by a base material 60 and a carbon material 61 covering the base material 60. Further, direct current voltages having 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 or a ground voltage having polarity opposite to that of the voltages applied to the ionizer 30 and the high-voltage electrode 5 is applied to the dust collection board 6.

(Fig.2)