

ABSTRACT

Provided is an air supply device including a housing. The housing includes: a suction port, a high pressure air generating portion, a blowout port, and a first air passage. The housing further includes: a discharge electrode unit box body arranged inside the first air passage, the discharge electrode unit box body includes: an external ion discharge port that allows ions to flow out toward an outside of the discharge electrode unit box body, a first space enclosing a discharge electrode unit, and a second space that allows ions to flow toward a direction of the external ion discharge port, the first space is in communication with the second space. By arranging the discharge electrode unit box body inside the first air passage, the housing may block a liquid from contacting the discharge electrode unit to a certain extent. The discharge electrode unit is enclosed by the first space inside the first space, and the first space is only in communication with the second space, thereby forming a substantially sealed space. Therefore, the risk that the liquid contacts the discharge electrode unit may be further suppressed to a certain extent with the discharge electrode unit box body itself as a barrier.