

Method for Calculating Life of Filter Screen of Air Purifier, Storage Medium, and Air Purifier

Abstract

The disclosure discloses a method for calculating life of a filter screen of an air purifier, a storage medium, and an air purifier, and belongs to the technical field of air purification. The method specifically includes the following processes: starting, by the air purifier, counting from start time; setting unit calculating time T_i ; recording a particulate matter concentration C_T in current air and total life T of the filter screen at a final node of each unit calculating time; and setting life of the filter screen consumed within the unit calculating time as T_1 , residual life of the filter screen as T_2 , and a weighted weight for calculating the life of the filter screen as W_i . When the method in the disclosure is used, the life of the filter screen consumed with the unit calculating time is calculated through a formula $T_1=W_i*T_i$, and the residual life of the filter screen is obtained through a formula $T_2=T-T_1$. When the method in the disclosure is used to calculate the service life of the filter screen of the air purifier, the service life of the filter screen can be dynamically calculated according to an air quality condition, so that the filter screen can be used effectively.

FIG. 1