

Air Purifier and Method for Calculating Life of Used Filter Cartridge, and Anti-Counterfeiting Method for Used Filter Cartridge

Abstract

The disclosure discloses an air purifier and method for calculating life of a used filter cartridge and an anti-counterfeiting method for the used filter cartridge, and belongs to the technical field of air purifying equipment. The disclosure specifically includes an air purifier, a method for calculating life of a used filter cartridge of the air purifier, and an anti-counterfeiting method for the filter cartridge. According to different particulate matter concentration ranges, the consumption of life of the filter cartridge within a unit time is determined, the life of the filter cartridge is correctly analyzed in a dynamic environment, and effective use of the filter cartridge is guaranteed. Moreover, through data communication between a master control and identifying chip on the purifier and an information chip on the filter cartridge, authenticity identification of the filter cartridge and acquisition of usage data of the filter cartridge are achieved, so that the accuracy of the life of the filter cartridge is further guaranteed. Furthermore, by converting a dynamic life value into a static life value, a user can determine specific time when the life of the filter cartridge is terminated, and the user is not subjected to mental oppression, so that the experience feeling of the user is enhanced.

FIG. 1