

ABSTRACT

An expandable cleaning device includes a flow guiding main body including a flow guiding pathway extendable in longitudinal/lateral direction to form expanded flow guiding path, fluidly communicated with a gas entrance and a gas exit; a filtration element disposed in the flow guiding pathway and covering the gas entrance for filtering air pollution; a gas guider having a CADR for guiding air pollution into the flow guiding pathway; and a networking controller receiving a control instruction for activating the gas guider, wherein after a required equivalent of CADR of indoor field is intelligently computed, and a number of gas guider and an optimal CADR thereof are decided, an assembled expandable cleaning device complying with the required equivalent of CADR is formed by the flow guiding main body to provide the expanded flow guiding path for disposing the gas guider, thereby achieving a purification procedure the air pollution close to zero.

FIG.1A