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(54) Title: METHOD AND SYSTEM FOR SCHEDULING A HEATING, VENTILATION AND AIR-CONDITIONING SYSTEM

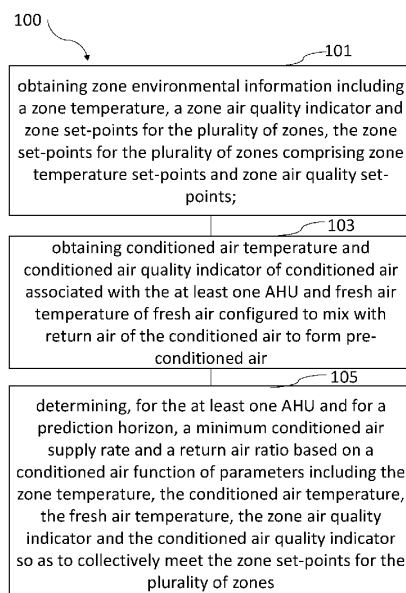


FIG. 1

(57) Abstract: In some aspects, a method for scheduling a heating, ventilation and air-conditioning (HVAC) system is provided. The HVAC system includes an air conditioning plant, at least one air handling unit (AHU) in connection with the air conditioning plant, and the at least one AHU is configured to serve a plurality of zones. The method includes: obtaining zone environmental information including a zone temperature, a zone air quality indicator and zone set-points for the plurality of zones that include zone temperature set-points and zone air quality set-points. The method also includes obtaining conditioned air temperature and conditioned air quality indicator and fresh air temperature of fresh air configured to mix with return air of the conditioned air to form pre-conditioned air and determining a minimum conditioned air supply rate and a return air ratio based on a conditioned air function of parameters including the obtained information.

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