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(54) **Title:** HEATING, VENTILATION, AND AIR CONDITIONING MANAGEMENT SYSTEM AND METHOD

(57) **Abstract:** Systems and methods of controlling a heating, ventilating, and air conditioning system are provided that operate according to signals returned from return air temperature sensors as well as the supply air temperature sensors. Using predetermined temperature setpoints, return temperature information, and supply temperature information, the HVAC system is configured to maintain the temperature of a room first, by the use of its cooling valve, and second and only when the capacity of the cooling valve has peaked, by use of the fan. The presently disclosed improved HVAC system operates more efficiently by avoiding unit loading hopping and minimizing power consumption.



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