

## ABSTRACT

METHOD FOR IMPROVING OPERATIONAL EFFICIENCY OF A COOLING SYSTEM THROUGH RETROFITTING A BUILDING WITH A MASTER CONTROLLER

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A Building Management System (BMS) for operating a HVAC arrangement for a building comprises interfaces for at least one electric chilled water pump of an Air Handling Unit (AHU) loop of a building, and for at least one electric fan and for at least one condenser water pump of a cooling tower loop of a building. The BMS issues control signals for controlling an electric chilled water pump, an electric fan, and a condenser water pump. The BMS reduces the speed of the electric chilled water pump such that, as compared with an essentially balanced state of a HVAC arrangement, essentially the same heat transport rate is maintained.

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(Fig. 1)