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(54) **SYSTEMS AND METHODS FOR OPTIMIZING THE EFFICIENCY OF HVAC SYSTEMS**

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CPC ... ***F24F 11/0012*** (2013.01); *F24F 2011/0075* (2013.01); *Y02B 30/542* (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

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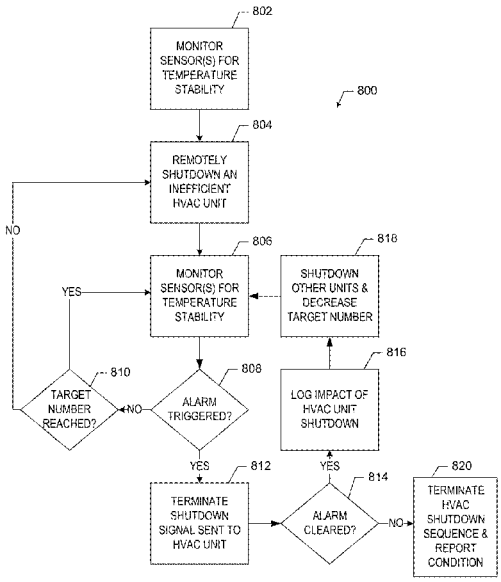
(57) **ABSTRACT**

Aspects of the present disclosure disclose systems and methods for controlling the operation and shut down of a plurality of HVAC units in a facility to improve efficiency. More particularly, a target number of inefficient HVAC units may be identified and systematically shut down while monitoring the environmental conditions in the facility to determine if additional HVAC units may be shut down or alternately should be restarted automatically.

31 Claims, 16 Drawing Sheets