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Roy et al.

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(54) **SYSTEMS AND METHODS FOR PROVIDING NETWORK CONNECTIVITY AND REMOTE MONITORING, OPTIMIZATION, AND CONTROL OF POOL/SPA EQUIPMENT**

(58) **Field of Classification Search**
CPC .. G01R 19/16571; G01K 3/005; G01L 13/00; G01L 19/086; G01F 1/06; G01F 15/061; (Continued)

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(57) **ABSTRACT**

Systems and methods for providing network connectivity and remote monitoring, optimization, and control of pool/spa equipment are provided. "Internet-of-Things" (IoT) functionality is provided for pool and spa equipment in a flexible and cost-effective manner. Network connectivity and remote monitoring/control of pool and spa equipment is provided by various components such as a network communication and local control subsystem installed in pool/spa equipment, and other components. Also disclosed are various control processes ("pool logic") which can be embodied as software code installed in any of the various embodiments of the present disclosure.

29 Claims, 268 Drawing Sheets

