

(12) **United States Patent**
Taylor

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(54) **METHOD AND APPARATUS FOR
AUTOMATIC DESCALING OF TANKLESS
WATER HEATERS**

(56) **References Cited**

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(57) **ABSTRACT**

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A system for descaling a water heating unit, said system comprising (so that the abstract is directed to the presently allowed apparatus, rather than a method): a pump; a descaling solution source; a plurality of valves; a programmable control module operatively coupled to said pump, said descaling solution source, and said valves, said programmable control module adapted to selectively receive a user-defined descaling operation start date and time, monitor for the advent of a descaling operation start date and time, and upon the advent of the descaling operation start date and time, automatically shut off via at least one valve, a supply of heated water, and automatically activate said pump; said pump adapted to automatically pump stored descaling solution, and further adapted to automatically rinse a water heating unit; and said programmable control module further adapted to cause said valves to discharge solution from said water heating unit, restore a supply of heated water, and return said water heating unit to normal operation mode.

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(52) **U.S. Cl.**

CPC **F24D 19/0092** (2013.01); **F28G 9/00** (2013.01); **C02F 2303/22** (2013.01)

(58) **Field of Classification Search**

None

See application file for complete search history.

14 Claims, 6 Drawing Sheets

