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Steinberg et al.

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(54) **SYSTEM, METHOD AND APPARATUS FOR IDENTIFYING MANUAL INPUTS TO AND ADAPTIVE PROGRAMMING OF A THERMOSTAT**

(58) **Field of Classification Search**
CPC F24F 11/0009; F24F 11/001; F24F 11/006; F24F 11/0086; F24F 2011/0057;
(Continued)

(71) Applicant: **EcoFactor, Inc.**, Redwood City, CA (US)

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(73) Assignee: **EcoFactor, Inc.**, Redwood City, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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Primary Examiner — Marc Norman

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(74) *Attorney, Agent, or Firm* — Knobbe, Martens, Olson & Bear, LLP

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(Continued)

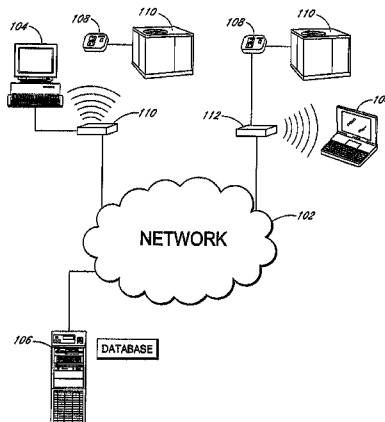
(57) **ABSTRACT**

Systems and methods are disclosed for incorporating manual changes to the setpoint for a thermostatic controller into long-term programming of the thermostatic controller. For example, one or more of the exemplary systems compares the actual setpoint at a given time for the thermostatic controller to an expected setpoint for the thermostatic controller in light of the scheduled programming. A determination is then made as to whether the actual setpoint and the expected setpoint are the same or different. Furthermore, a manual change to the actual setpoint for the thermostatic controller is compared to previously recorded setpoint data for the thermostatic controller. At least one rule is then applied for the interpretation of the manual change in light of the previously recorded setpoint data.

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G05B 19/042 (2006.01)
G05D 23/19 (2006.01)

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24 Claims, 11 Drawing Sheets



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- (52) **U.S. Cl.**
 CPC *F24F 11/0086* (2013.01); *G05B 19/0426* (2013.01); *G05D 23/1904* (2013.01); *F24F 2011/0057* (2013.01); *F24F 2011/0061* (2013.01); *F24F 2011/0064* (2013.01); *F24F 2011/0068* (2013.01); *F24F 2011/0093* (2013.01); *G05B 2219/23199* (2013.01); *G05B 2219/2614* (2013.01)
- (58) **Field of Classification Search**
 CPC F24F 2011/0061; F24F 2011/0064; F24F 2011/0068; F24F 2011/0093; G05B 19/0426; G05B 2219/23199; G05B 2219/2614; G05D 23/1904
 See application file for complete search history.

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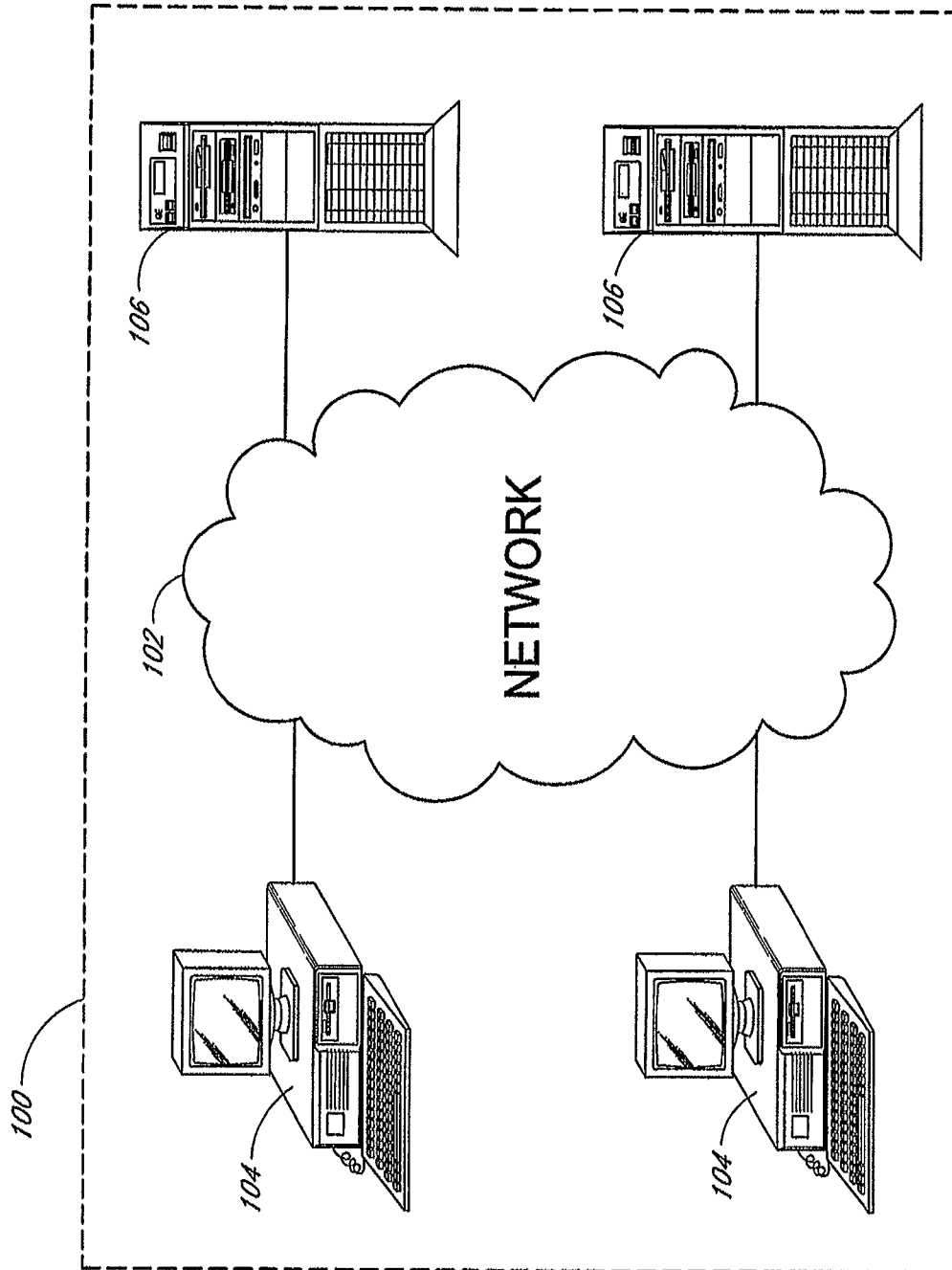


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Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

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Sync your system to PACER to automate legal marketing.