

EXHIBIT D



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(12) **United States Patent**
Arling

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(54) **SYSTEM AND METHOD FOR OPTIMIZED APPLIANCE CONTROL**

(71) Applicant: **Universal Electronics Inc.**, Santa Ana, CA (US)

(72) Inventor: **Paul D. Arling**, Irvine, CA (US)

(73) Assignee: **UNIVERSAL ELECTRONICS INC.**, Santa Ana, CA (US)

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This patent is subject to a terminal disclaimer.

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G08C 23/04 (2006.01)

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

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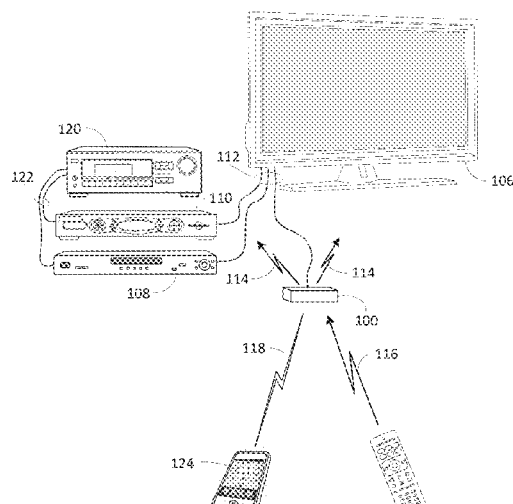
Primary Examiner — Adnan Aziz

(74) *Attorney, Agent, or Firm* — Greenberg Traurig, LLP

(57) **ABSTRACT**

In response to a detected presence of an intended target appliance within a logical topography of controllable appliances identity information associated with the intended target appliance is used to automatically add to a graphical user interface of a controlling device an icon representative of the intended target appliance and to create at a Universal Control Engine a listing of communication methods for use in controlling corresponding functional operations of the intended target appliance. When the icon is later activated, the controlling device is placed into an operating state appropriate for controlling functional operations of the intended target appliance while the Universal Control Engine uses at least one of the communication methods to transmit at least one command to place the intended target appliance into a predetermined operating state.

22 Claims, 14 Drawing Sheets



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<p>(51) Int. Cl. <i>H04N 21/422</i> (2011.01) <i>H04N 21/4363</i> (2011.01)</p>	<p>(52) U.S. Cl. CPC <i>G08C 2201/20</i> (2013.01); <i>G08C 2201/30</i> (2013.01); <i>G08C 2201/40</i> (2013.01); <i>G08C 2201/70</i> (2013.01); <i>G08C 2201/92</i> (2013.01); <i>G08C 2201/93</i> (2013.01); <i>H04N 21/42225</i> (2013.01); <i>H04N 21/4363</i> (2013.01)</p>	<p>2011/0021684 A1* 1/2012 Schultz H04B 5/0043 455/41.1</p>	<p>2012/0069894 A1 3/2012 Sakimura et al. 2012/0082461 A1* 4/2012 Meyer G08C 17/02 398/106</p>
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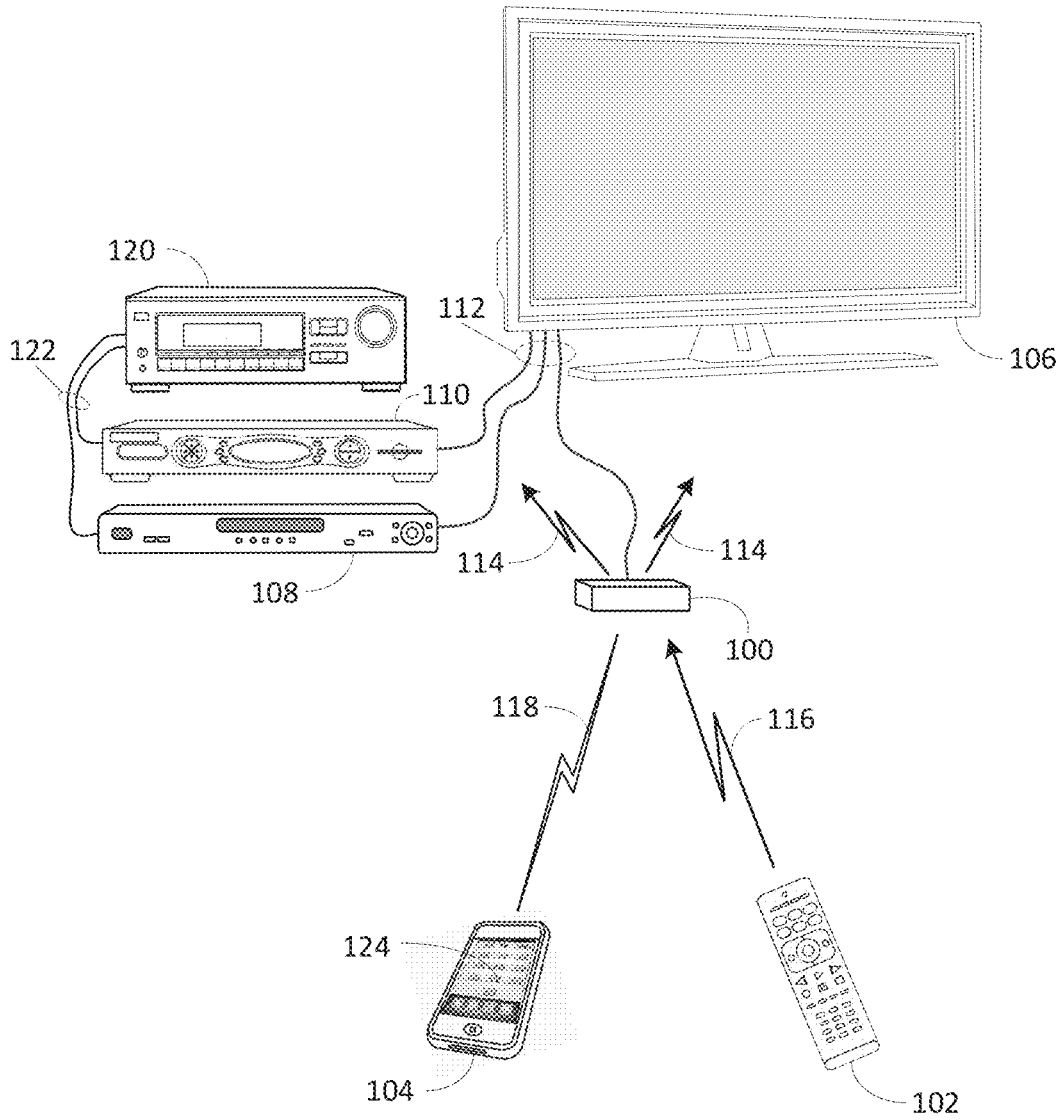


Figure 1

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