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# EXHIBIT B

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US009641785B2

## (12) United States Patent

#### Barnett et al.

(54) SYSTEM AND METHOD FOR CONFIGURING CONTROLLING DEVICE FUNCTIONALITY

- (71) Applicant: UNIVERSAL ELECTRONICS INC., Santa Ana, CA (US)
- Inventors: Brian Barnett, Oakland, CA (US);
  Arsham Hatambeiki, San Diego, CA (US); Rex Xu, Tustin, CA (US); Jesus Perez, Costa Mesa, CA (US)
- (73) Assignee: Universal Electronics Inc., Santa Ana, 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.

- (21) Appl. No.: 15/180,188
- (22) Filed: Jun. 13, 2016

#### (65) **Prior Publication Data**

US 2016/0295153 A1 Oct. 6, 2016

#### **Related U.S. Application Data**

- (63) Continuation of application No. 14/676,556, filed on Apr. 1, 2015, now Pat. No. 9,380,250, which is a (Continued)
- (51) Int. Cl.

H04N 5/44	(2011.01)
H04N 5/765	(2006.01)
H04N 21/422	(2011.01)
H04N 21/4363	(2011.01)
H04N 21/442	(2011.01)
	(Continued)

(Continued)

#### (10) Patent No.: US 9,641,785 B2

#### (45) **Date of Patent:** \*May 2, 2017

- (58) **Field of Classification Search** CPC ...... G09G 5/006; H04N 21/4635; H04N 21/43615

See application file for complete search history.

#### (56) **References Cited**

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Primary Examiner — Jefferey Harold

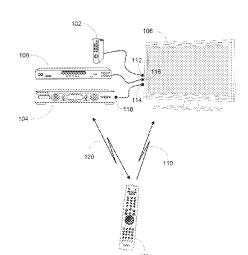
Assistant Examiner — Samira Monshi

(74) Attorney, Agent, or Firm-Greenberg, Traurig, LLP

#### (57) ABSTRACT

A controlling device is automatically configured to issue a communication directly to a first controllable appliance to control a functional operation of the first controllable appliance is determined to be unresponsive to a command communication transmitted to the first controllable appliance via a digital communications link or to issue a communicational operation of the first controllable appliance via a digital communications link in the event that first controllable appliance via a digital communications link in the event that first controllable appliance via a digital communications link in the event that first controllable appliance via a digital communications link in the first controllable appliance via a digital appliance is determined to be responsive to a command communication transmitted to the first controllable appliance via a digital communications link.

#### 13 Claims, 6 Drawing Sheets



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#### **Related U.S. Application Data**

continuation of application No. 13/240,604, filed on Sep. 22, 2011, now Pat. No. 9,019,435.

(51) Int. Cl.

H04N 21/45	(2011.01)
H04N 21/485	(2011.01)
H04N 5/775	(2006.01)

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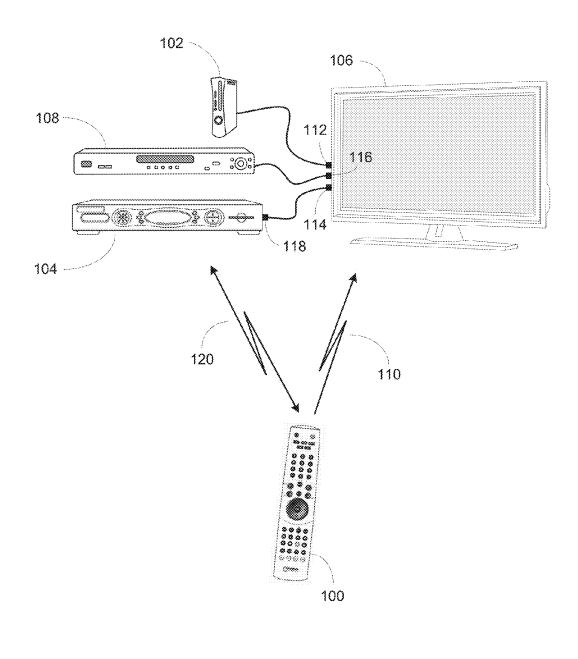


Figure 1

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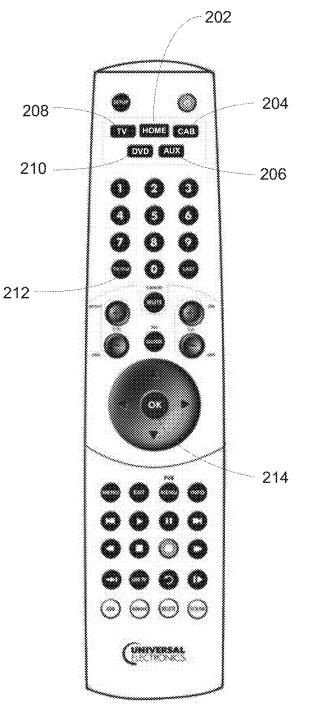
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Figure 2

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