

Exhibit 17



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(12) **United States Patent**
Kim et al.

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(54) **ELECTRONIC DEVICE AND METHOD FOR INFORMATION ABOUT SERVICE PROVIDER**

(58) **Field of Classification Search**
 CPC H04N 21/4524; H04N 21/25841; H04N 21/482

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(Continued)

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(73) Assignee: **LG ELECTRONICS INC.**, Seoul (KR)

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

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(Continued)

This patent is subject to a terminal disclaimer.

Primary Examiner — James R Shelehedra

(21) Appl. No.: **14/532,691**

(74) *Attorney, Agent, or Firm* — Birch, Stewart, Kolasch & Birch, LLP

(22) Filed: **Nov. 4, 2014**

(57) **ABSTRACT**

(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation of application No. 13/871,762, filed on Apr. 26, 2013, now Pat. No. 8,904,429.

A method of providing information about a service provider by using an electronic device displaying contents is described. Information corresponding to first service providers which are able to provide a service to a specific electronic device regardless of a location of the specific electronic device is displayed. The information corresponding to the first service providers is displayed enabled. Information corresponding to second service providers which are able to provide a service to a specific electronic device in a certain region is displayed. The information corresponding to the second service providers is displayed disabled. Regional information of the electronic device is set based on regional information received through a user interface unit or location information obtained by a location information module. The set regional information is transmitted to a server. Information about service providers related to the transmitted regional information and unrelated to the set regional information is received.

(30) **Foreign Application Priority Data**

May 17, 2012 (KR) 10-2012-0052590

18 Claims, 32 Drawing Sheets

(51) **Int. Cl.**

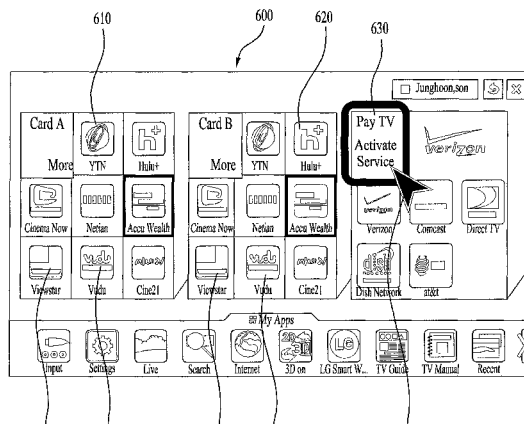
H04N 5/445 (2011.01)
H04N 21/472 (2011.01)

(Continued)

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

CPC **H04N 21/472** (2013.01); **H04N 21/254** (2013.01); **H04N 21/25841** (2013.01);

(Continued)



- (51) **Int. Cl.**
H04N 21/482 (2011.01)
H04N 21/258 (2011.01)
H04N 21/45 (2011.01)
H04N 21/431 (2011.01)
H04N 21/254 (2011.01)
H04N 21/2665 (2011.01)
H04N 21/462 (2011.01)
- (52) **U.S. Cl.**
 CPC *H04N 21/2665* (2013.01); *H04N 21/4314*
 (2013.01); *H04N 21/4524* (2013.01); *H04N*
21/4622 (2013.01); *H04N 21/47211* (2013.01);
H04N 21/482 (2013.01)
- (58) **Field of Classification Search**
 USPC 725/35, 44, 46, 48
 See application file for complete search history.
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FIG. 1

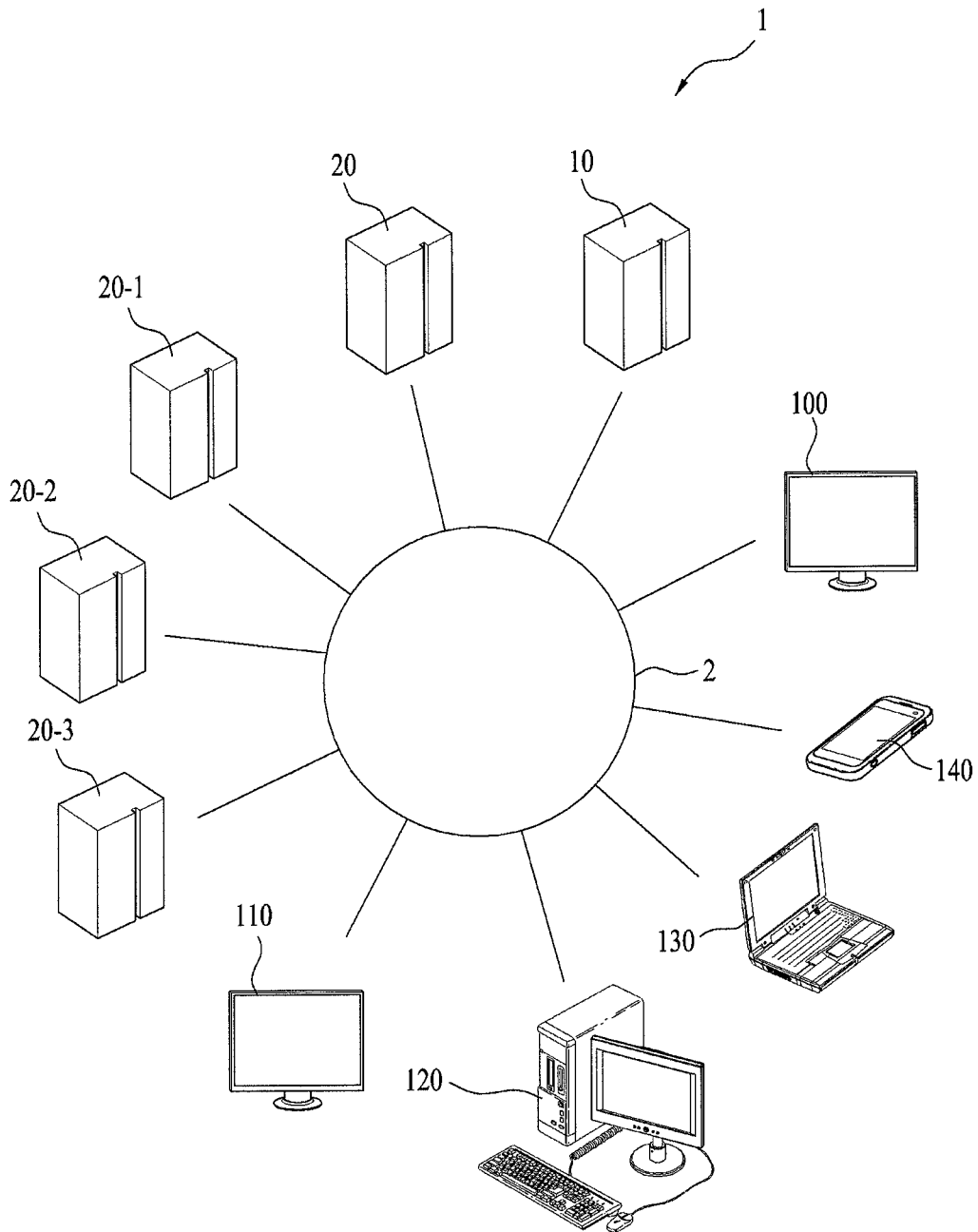
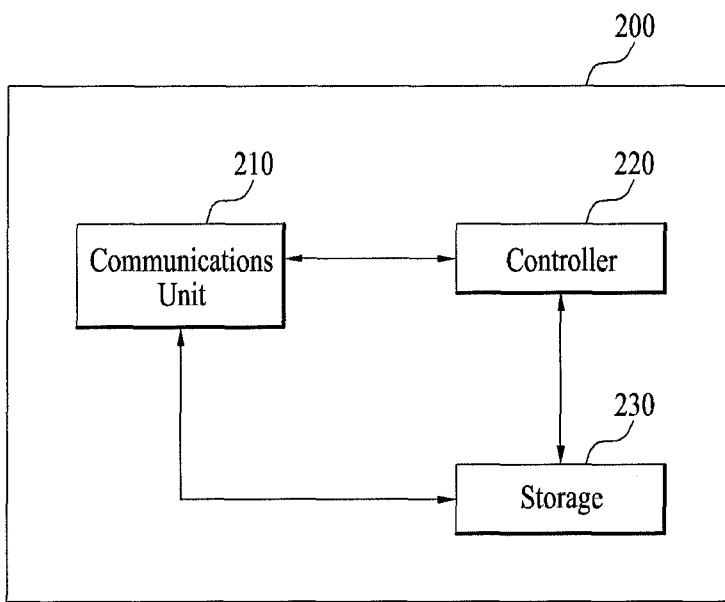


FIG. 2



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