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**Koss et al.**

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(54) **CONFIGURING WIRELESS DEVICES FOR A WIRELESS INFRASTRUCTURE NETWORK**

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(72) Inventors: **Michael J. Koss**, Milwaukee, WI (US); **Michael J. Pelland**, Princeton, WI (US); **Joel L. Haynie**, DeForest, WI (US)

(73) Assignee: **KOSS CORPORATION**, Milwaukee, WI (US)

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This patent is subject to a terminal disclaimer.

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**Related U.S. Application Data**

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(51) **Int. Cl.**  
**H04L 12/24** (2006.01)  
**H04W 24/02** (2009.01)  
(Continued)

(52) **U.S. Cl.**  
CPC ..... **H04L 41/0806** (2013.01); **G06F 3/165** (2013.01); **H04L 61/2007** (2013.01);  
(Continued)

(58) **Field of Classification Search**  
CPC .... H04L 41/0806; H04L 67/42; H04W 84/18  
See application file for complete search history.

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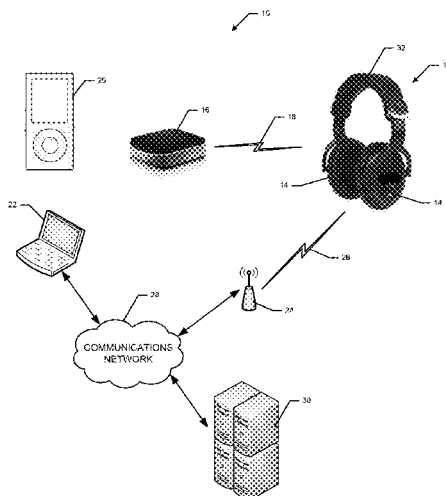
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(57) **ABSTRACT**

Systems and methods permit a wireless device to receive data wirelessly via an infrastructure wireless network, without physically connecting the wireless device to a computer in order to configure it, and without having an existing infrastructure wireless network for the wireless device to connect to. A remote server hosts a website that permits a user of the wireless device to input via a computer credential data for at least one infrastructure wireless network. The content access point transmits the credential data for the at least one infrastructure wireless network to the wireless device via the ad hoc wireless network, such that, upon receipt of the credential data for the at least one infrastructure wireless network, the wireless device is configured to connect to the at least one infrastructure wireless network.

**21 Claims, 4 Drawing Sheets**



**Related U.S. Application Data**

continuation of application No. 15/463,559, filed on Mar. 20, 2017, now Pat. No. 9,992,061, which is a continuation of application No. 15/080,940, filed on Mar. 25, 2016, now Pat. No. 9,629,190, which is a continuation of application No. 14/850,508, filed on Sep. 10, 2015, now Pat. No. 9,326,304, which is a continuation of application No. 14/702,316, filed on May 1, 2015, now Pat. No. 9,185,168, which is a continuation of application No. 13/832,719, filed on Mar. 15, 2013, now Pat. No. 9,060,288.

- (51) **Int. Cl.**
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  - H04W 8/26* (2009.01)
  - H04W 8/00* (2009.01)
  - H04L 29/12* (2006.01)
  - H04W 72/04* (2009.01)
  - H04W 76/10* (2018.01)
  - G06F 3/16* (2006.01)
  - H04W 12/08* (2009.01)
  - H04W 76/11* (2018.01)
  - H04W 84/18* (2009.01)
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- (52) **U.S. Cl.**
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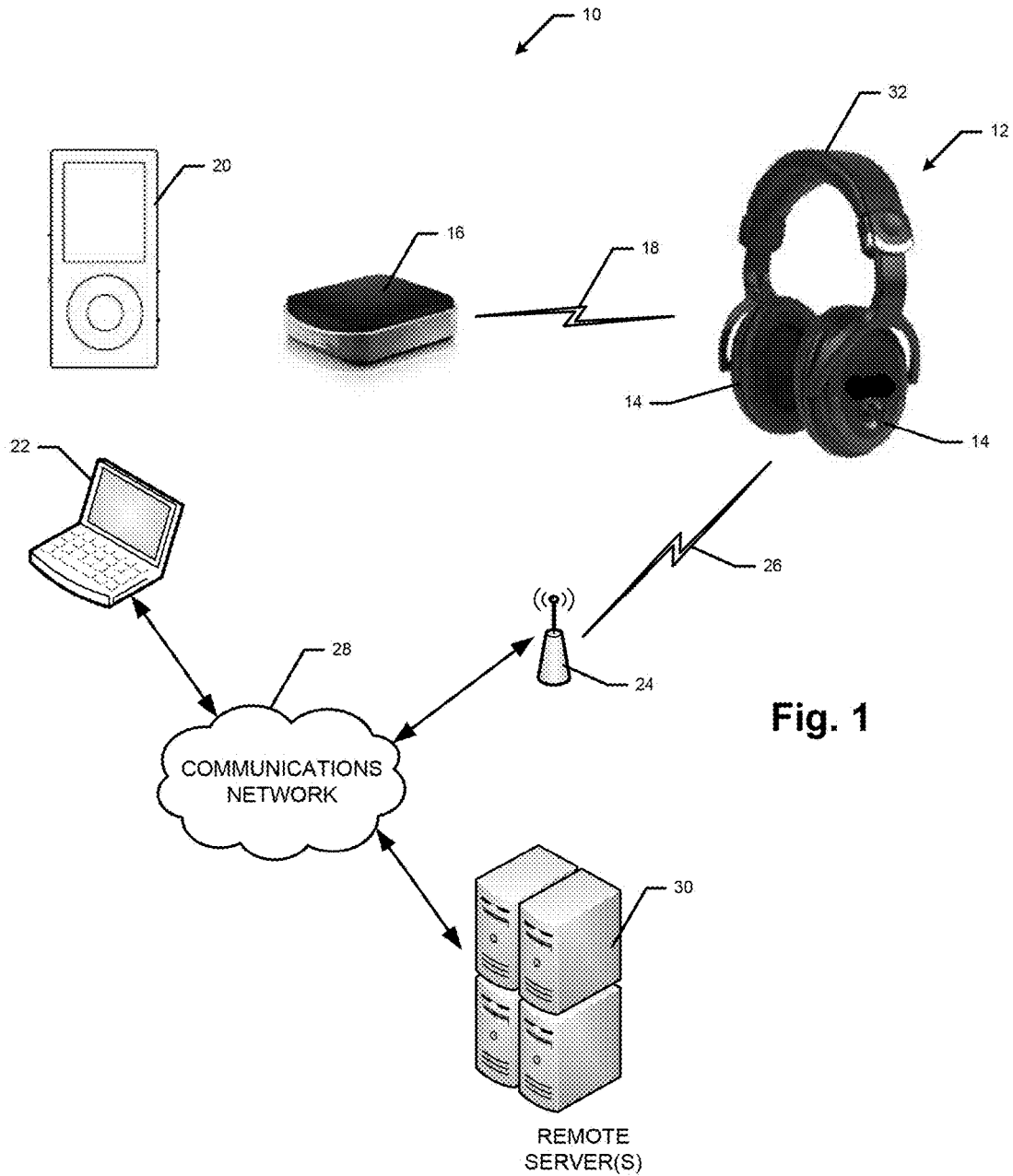


Fig. 1

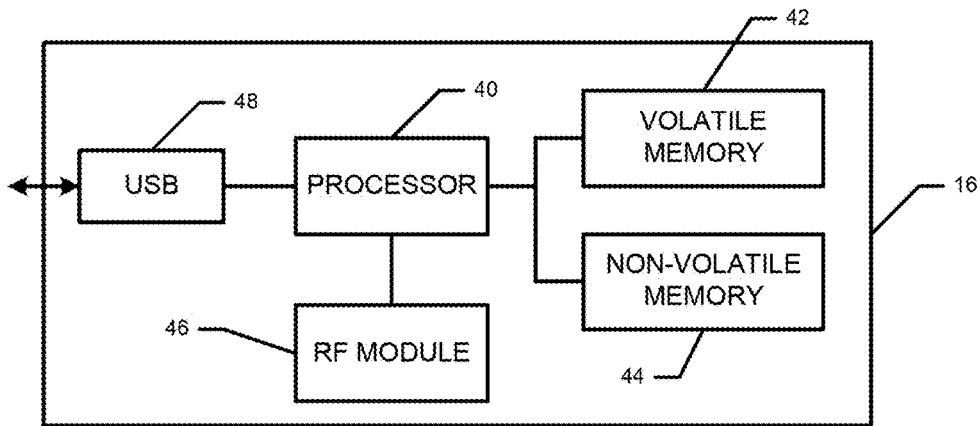


Fig. 2

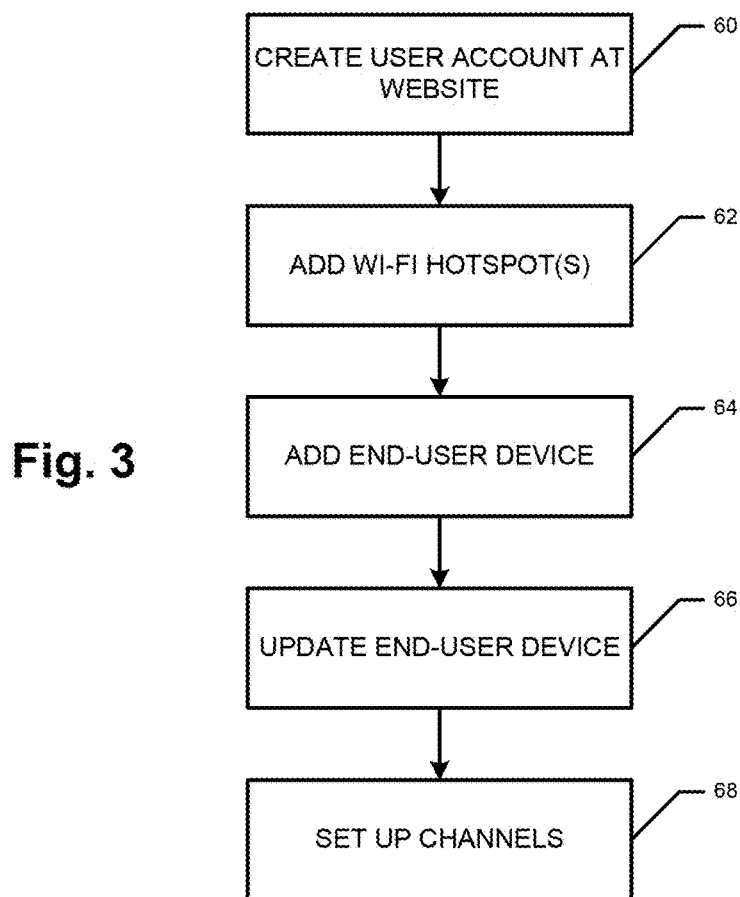


Fig. 3

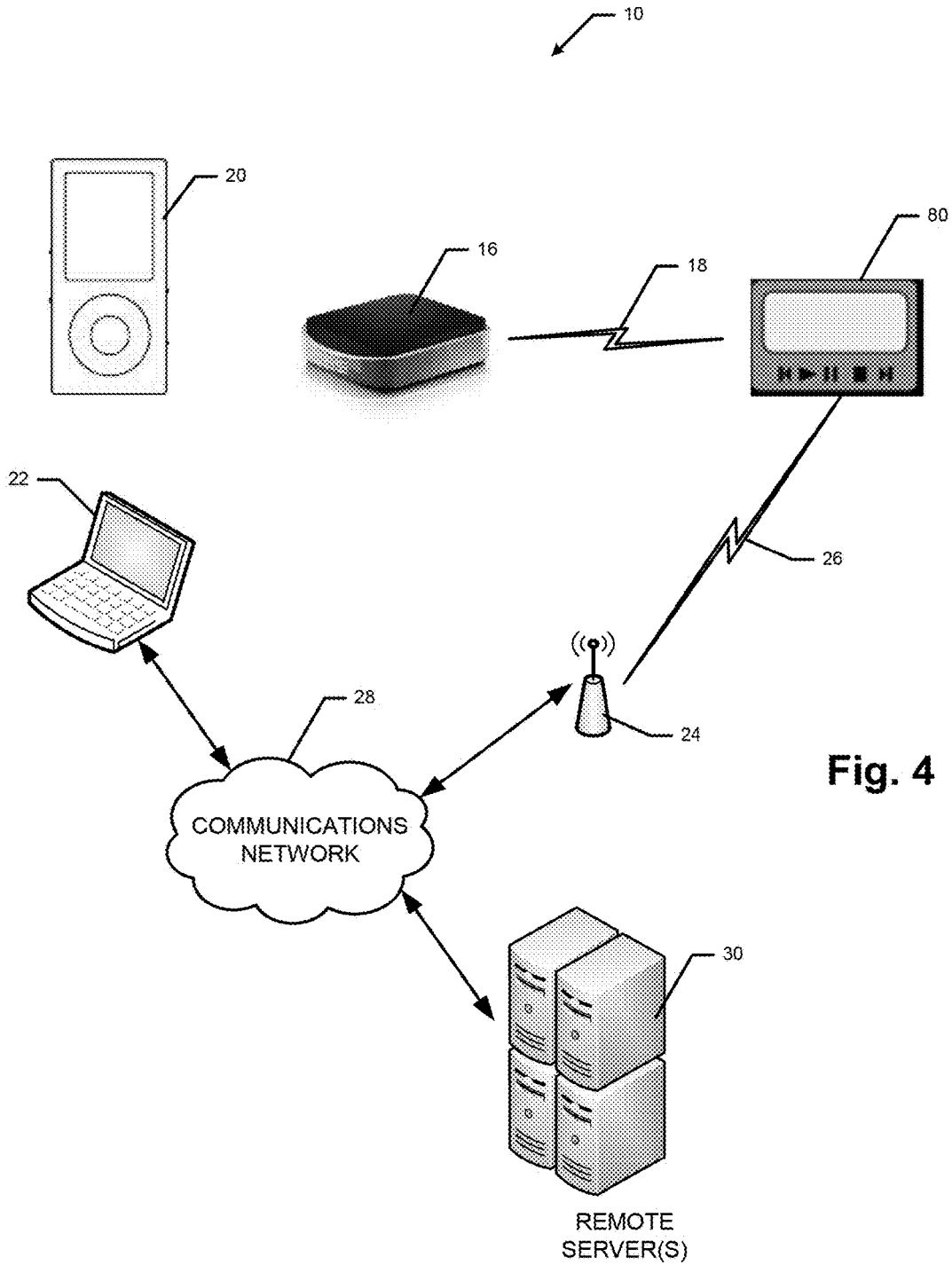


Fig. 4

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