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(12) **United States Patent**  
**Dua**

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(54) **METHOD, SYSTEM, AND APPARATUS HAVING NEAR FIELD COMMUNICATION (NFC) CHIP WITH CONFIGURABLE MEMORY THAT IS UPDATABLE VIA A HOST PROCESSOR**

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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.

(21) Appl. No.: **14/502,602**  
(22) Filed: **Sep. 30, 2014**

(65) **Prior Publication Data**  
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**Related U.S. Application Data**

(63) Continuation of application No. 13/975,504, filed on Aug. 26, 2013, now Pat. No. 8,971,803, which is a continuation of application No. 13/556,445, filed on Jul. 24, 2012, now Pat. No. 8,583,044, which is a continuation of application No. 11/127,979, filed on May 12, 2005, now Pat. No. 8,244,179.

(51) **Int. Cl.**  
**H04B 5/00** (2006.01)  
**G06F 17/30** (2006.01)  
**H04M 1/725** (2006.01)  
**H04L 12/28** (2006.01)  
**H04W 4/00** (2009.01)  
**H04W 76/02** (2009.01)

(Continued)

(52) **U.S. Cl.**  
CPC ..... **H04B 5/0031** (2013.01); **G06F 17/30058** (2013.01); **H04M 1/7253** (2013.01); **H04L 12/2809** (2013.01); **H04L 12/281** (2013.01); **H04L 12/2816** (2013.01); **H04L 12/282** (2013.01); **H04L 2012/2841** (2013.01); **H04L 2012/2849** (2013.01); **H04W 88/06** (2013.01); **H04B 5/0062** (2013.01); **H04W 4/008** (2013.01); **H04W 4/005** (2013.01);

(Continued)

(58) **Field of Classification Search**  
CPC ..... H04B 5/02; H04B 5/0031; H04B 5/0062; G06F 17/30058; G06F 3/048; H04M 1/7253; H04M 1/0264; H04M 1/0266; H04L 12/2809; H04L 12/281; H04L 12/2816; H04L 2012/2841; H04L 2012/2849; H04L 65/1069; H04W 88/06; H04W 4/008; H04W 4/005; H04W 76/023; G06Q 20/3278  
USPC ..... 455/41.1, 41.2, 41.3, 2.01, 3.06, 556.1, 455/552.1, 557  
See application file for complete search history.

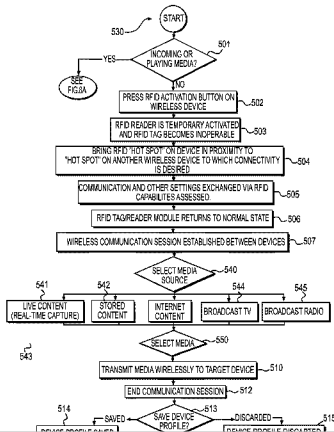
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(57) **ABSTRACT**  
A wireless media player and a related system and methodology are disclosed. One aspect of the wireless media player system pertains to a virtual connector system, apparatus, and method for the automatic establishment of wireless connectivity with other electronic devices. In one embodiment, the media player device employs the use of integrated Radio Frequency Identification (RFID) technology to exchange communication settings, media capability, and other parameters with an external device that also has integrated RFID technology. The automatic exchange of settings and other information via a proximity-based RFID data exchange allows a media player to quickly establish a secure communication link with another device via a commonly supported wireless protocol such as Ultra Wideband (UWB) or Bluetooth. Another aspect of the media player system pertains to a method of using the captured media capability of the connecting device to customize certain menu options and software parameters in the media player.

**178 Claims, 19 Drawing Sheets**



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(52)	<b>U.S. Cl.</b>		8,244,179	B2 *	8/2012	Dua .....	455/41.2
	CPC .....	<b>H04W 76/023</b> (2013.01); <b>G06F 3/048</b>	8,463,184	B2 *	6/2013	Dua .....	455/41.2
		(2013.01); <b>H04L 65/1069</b> (2013.01); <b>H04B</b>	8,548,381	B2 *	10/2013	Dua .....	455/41.2
		<b>5/02</b> (2013.01); <b>H04M 1/0264</b> (2013.01);	8,583,044	B2 *	11/2013	Dua .....	455/41.2
		<b>H04M 1/0266</b> (2013.01); <b>G06Q 20/3278</b>	8,768,256	B2 *	7/2014	Dua .....	455/41.2
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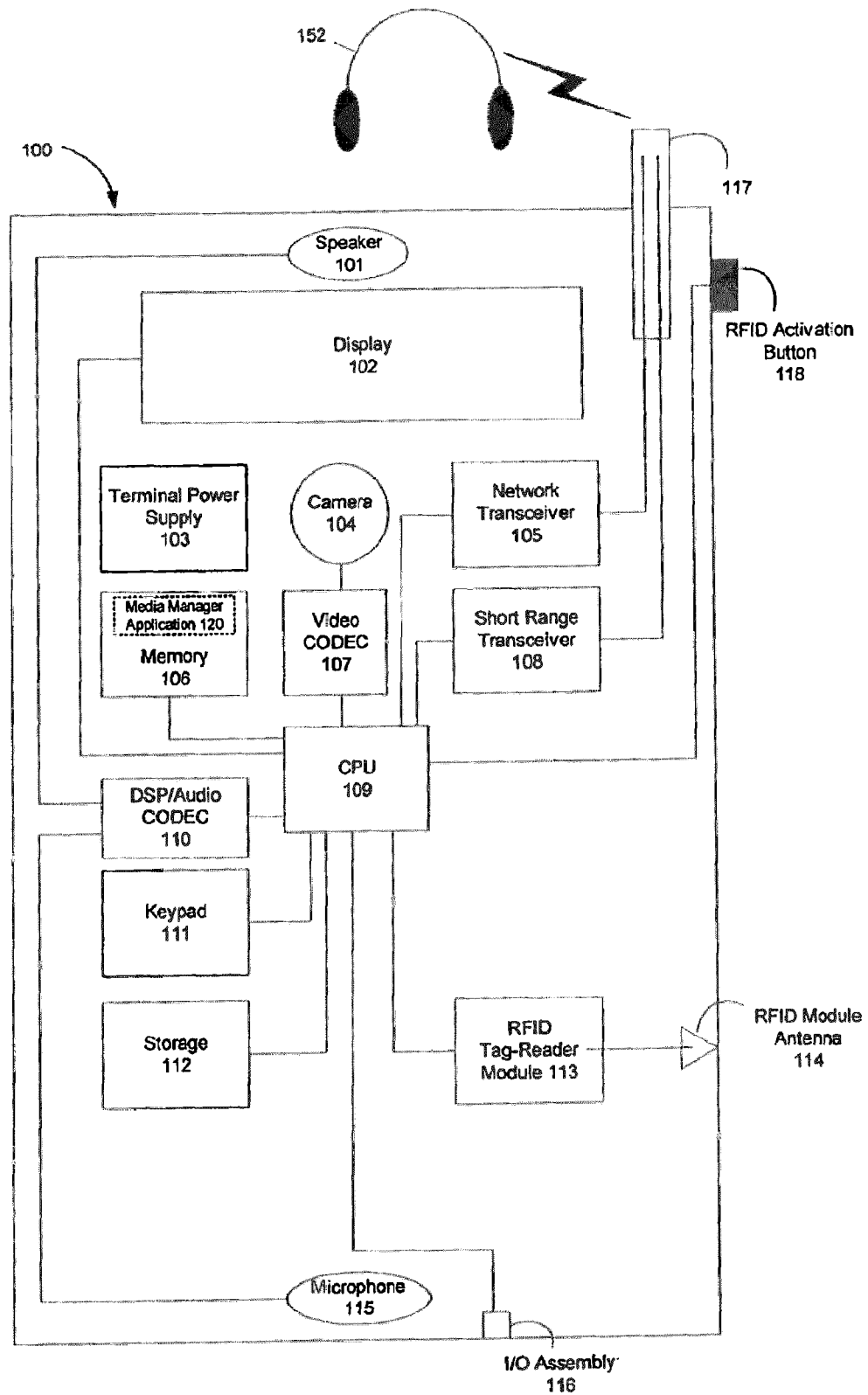


FIG. 1

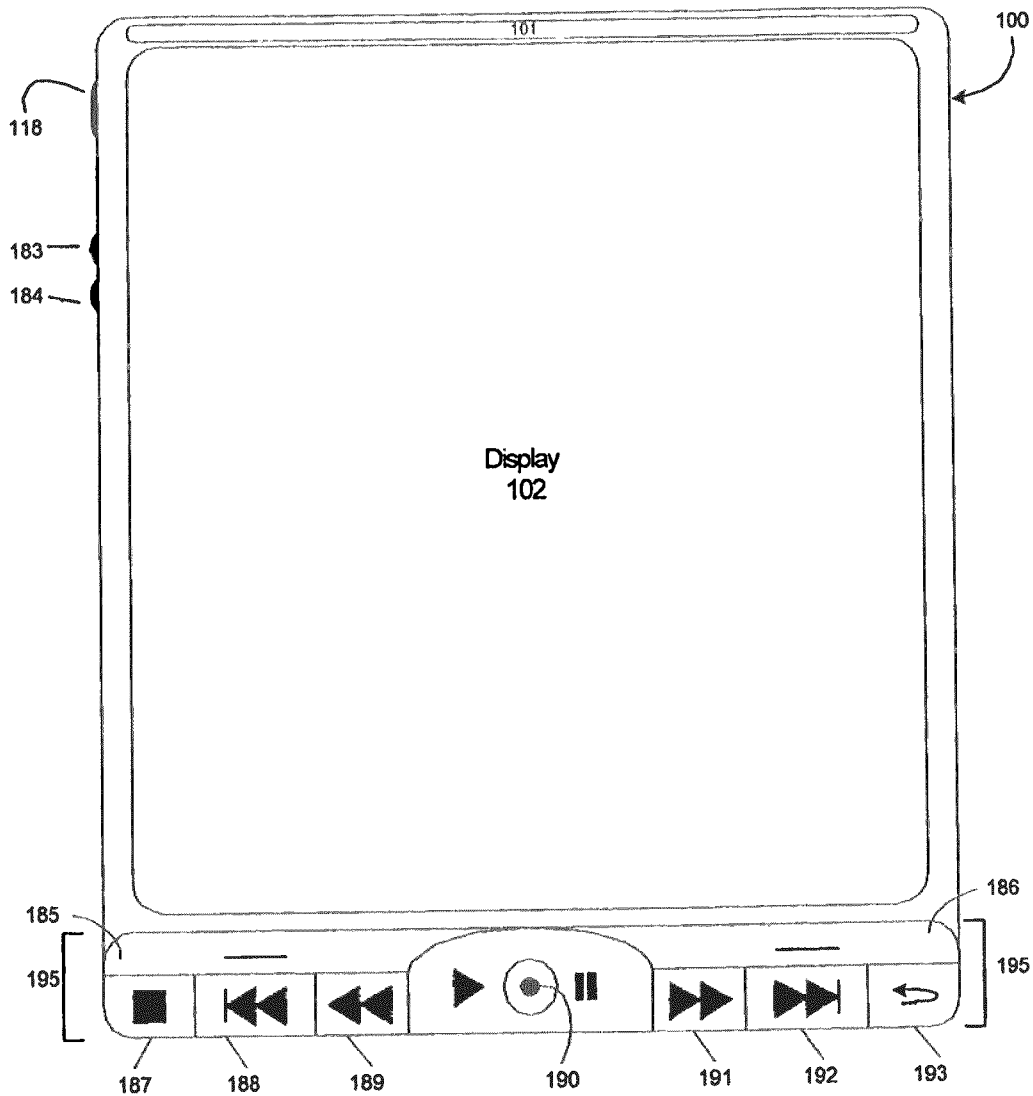


FIG. 2A

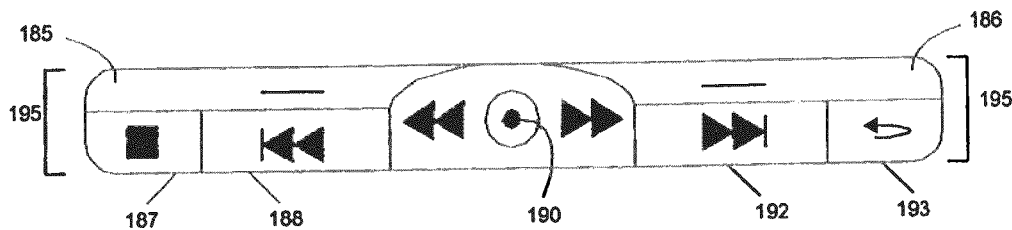


FIG. 2B

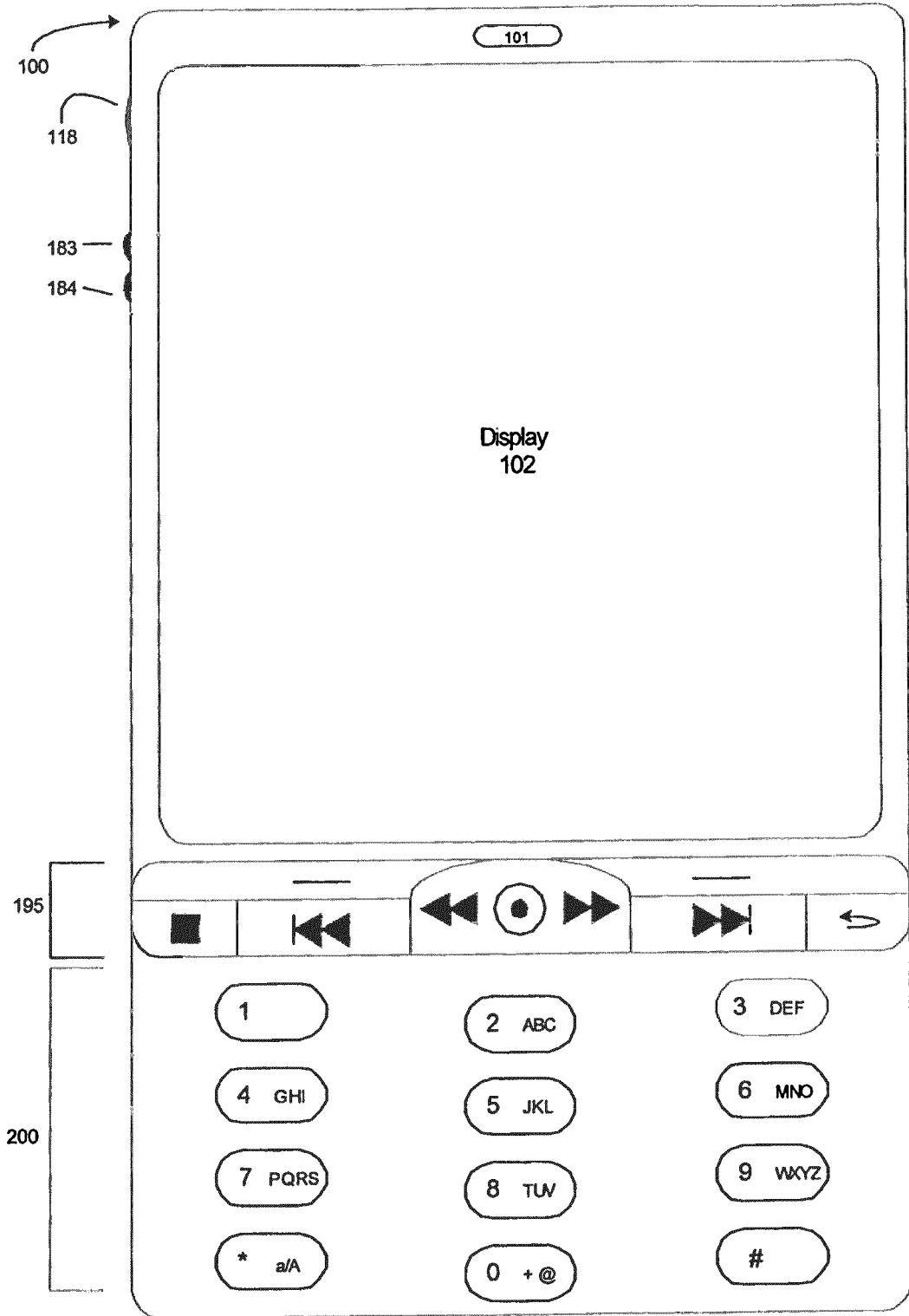


FIG. 2C

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