(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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H04W 76/02	(2009.01)

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USPC 455/41.1, 41.2, 41.3, 2.01, 3.06, 556.1, 455/552.1, 557
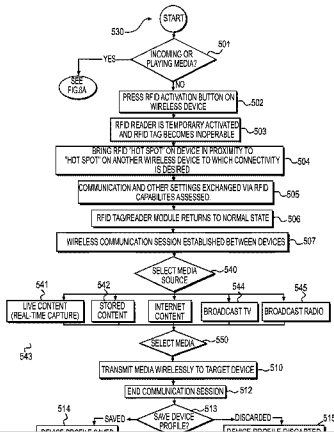See application file for complete search history.

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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.
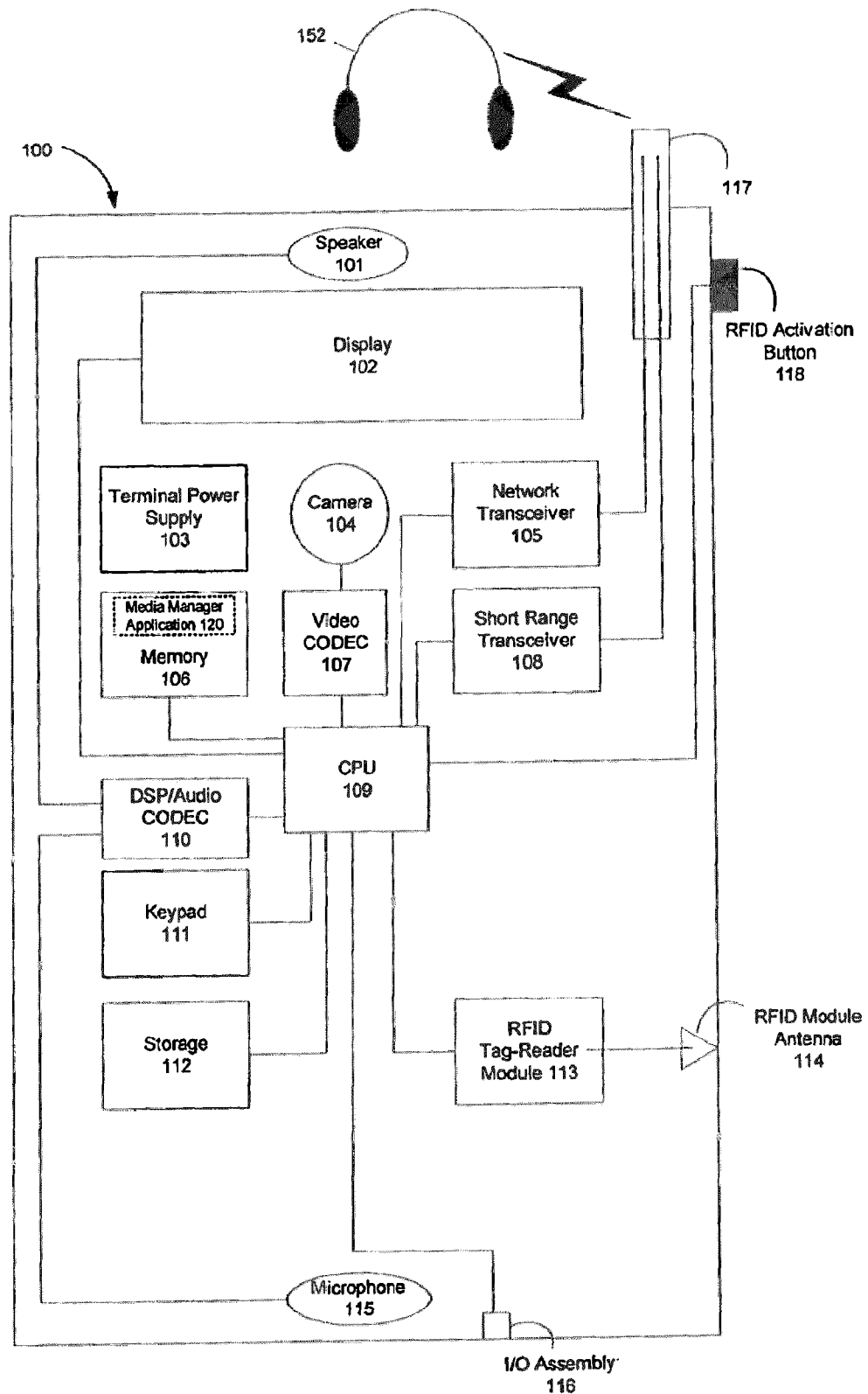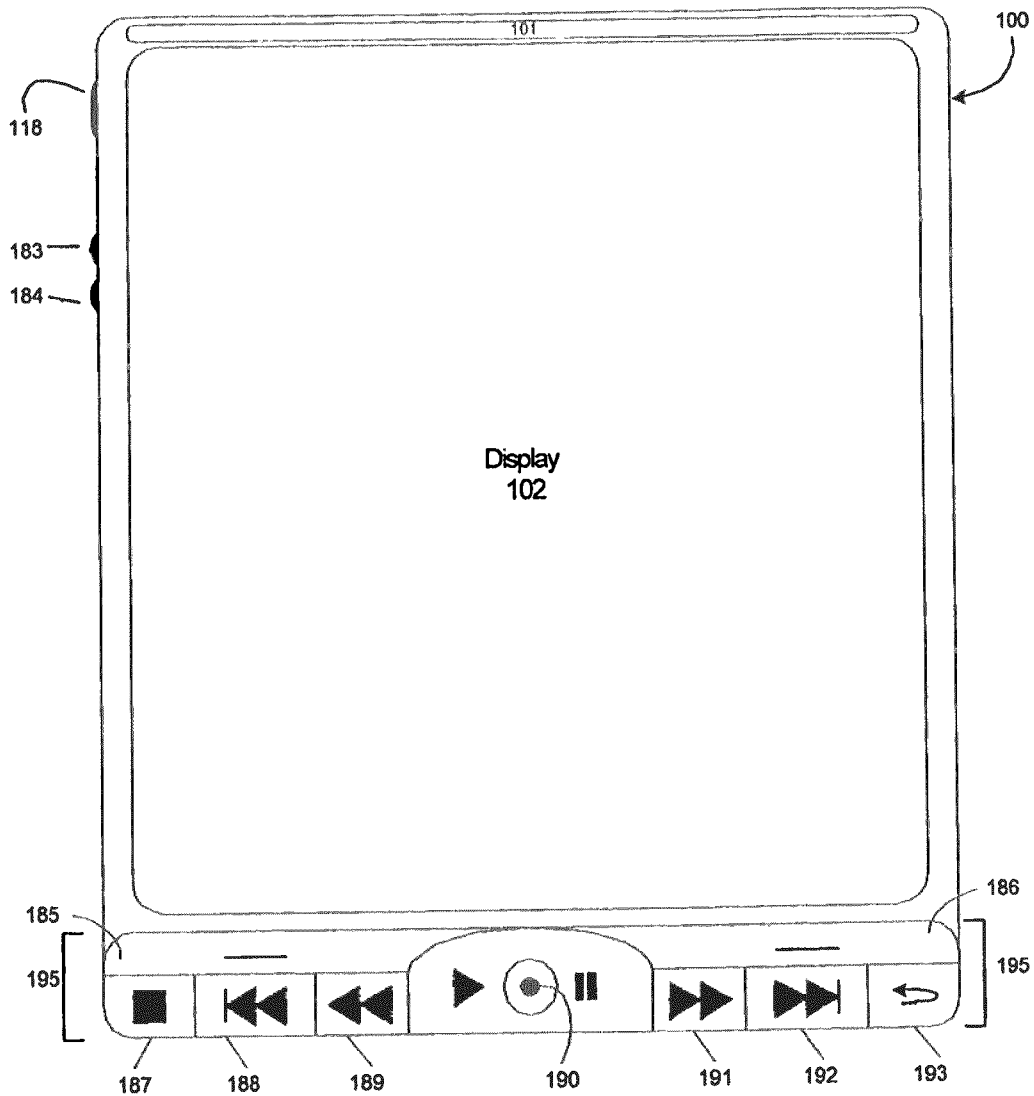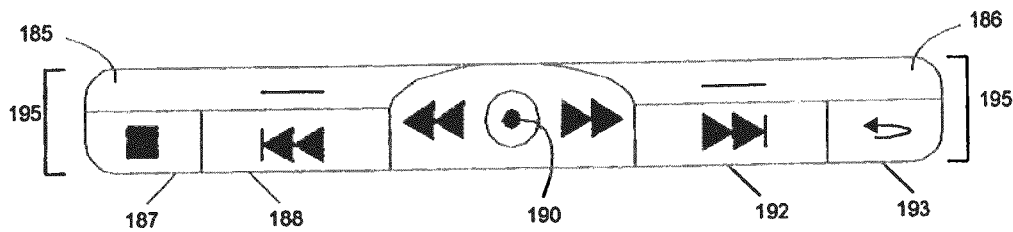
178 Claims, 19 Drawing Sheets

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H04M 1/02	(2006.01)
G06Q 20/32	(2012.01)
H04W 88/06	(2009.01)

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

CPC *H04W 76/023* (2013.01); *G06F 3/048* (2013.01); *H04L 65/1069* (2013.01); *H04B 5/02* (2013.01); *H04M 1/0264* (2013.01); *H04M 1/0266* (2013.01); *G06Q 20/3278* (2013.01); *H04W 4/003* (2013.01)

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100

117

RFID Activation
Button
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Speaker
101

Display
102

Terminal Power
Supply
103

Camera
104

Network
Transceiver
105

Media Manager
Application 120

Memory
106

Video
CODEC
107

Short Range
Transceiver
108

CPU
109

DSP/Audio
CODEC
110

Keypad
111

Storage
112

RFID
Tag-Reader
Module 113

RFID Module
Antenna
114

Microphone
115

FIG. 1

I/O Assembly
116

FIG. 2A

FIG. 2B

FIG. 2C

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