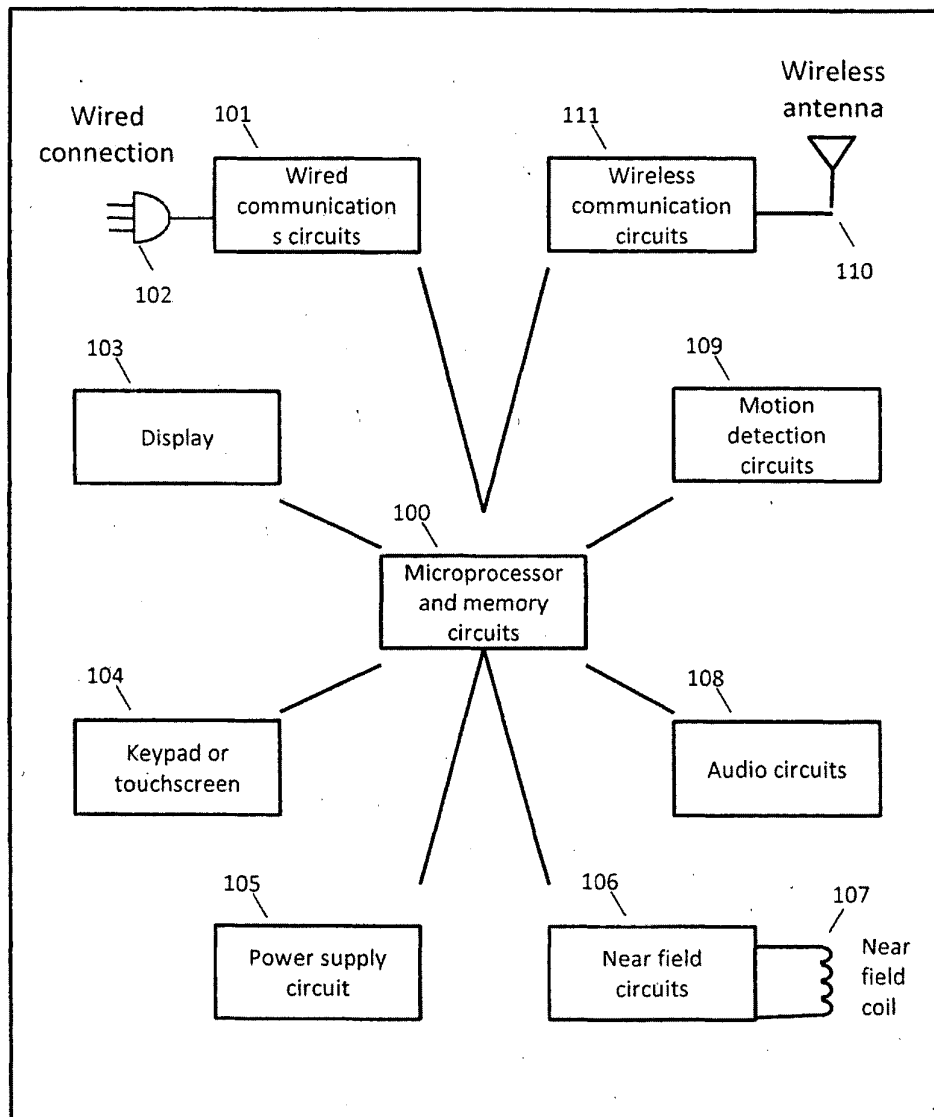
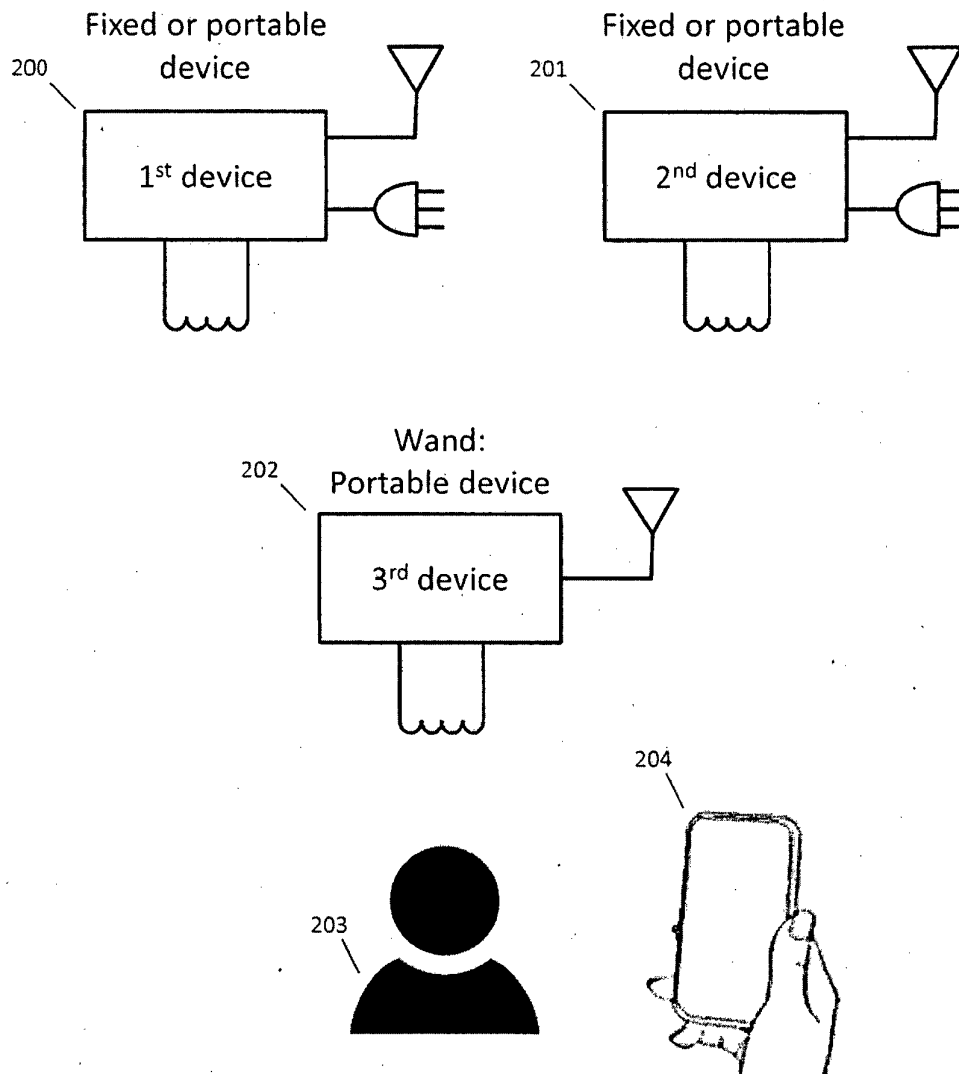


Block diagram of a device

Representation of a 1st, 2nd or 3rd device**Figure 1**

Arrangement of 1st, 2nd and 3rd devicesUser accessing a 3rd device being a mobile device**Figure 2**

Near field transfer between a 3rd device and a 1st device

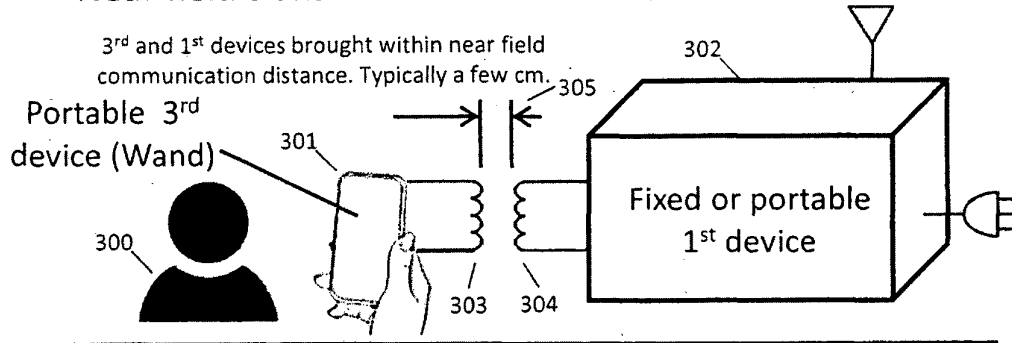


Figure 3a

Near field transfer between a 3rd device and a 2nd device

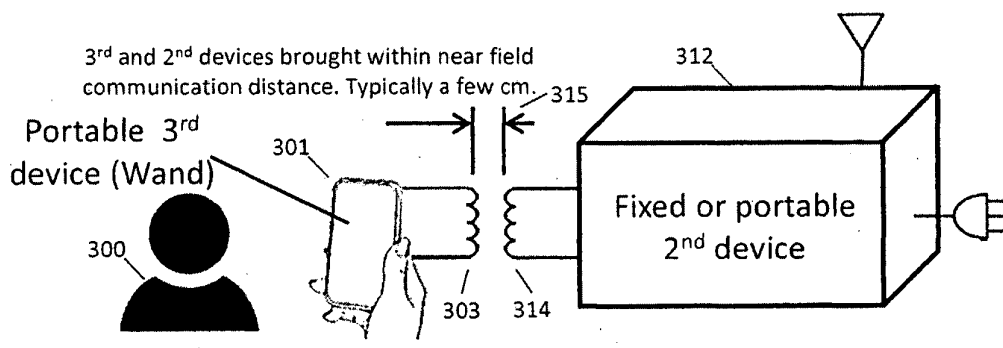


Figure 3b

Communications channel established between a 1st & 2nd device

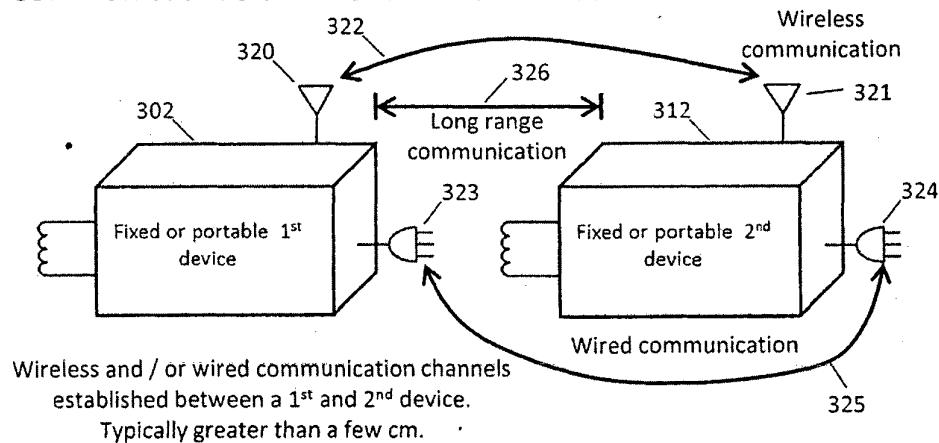


Figure 3c

A dongle device capable of being attached to a mobile device

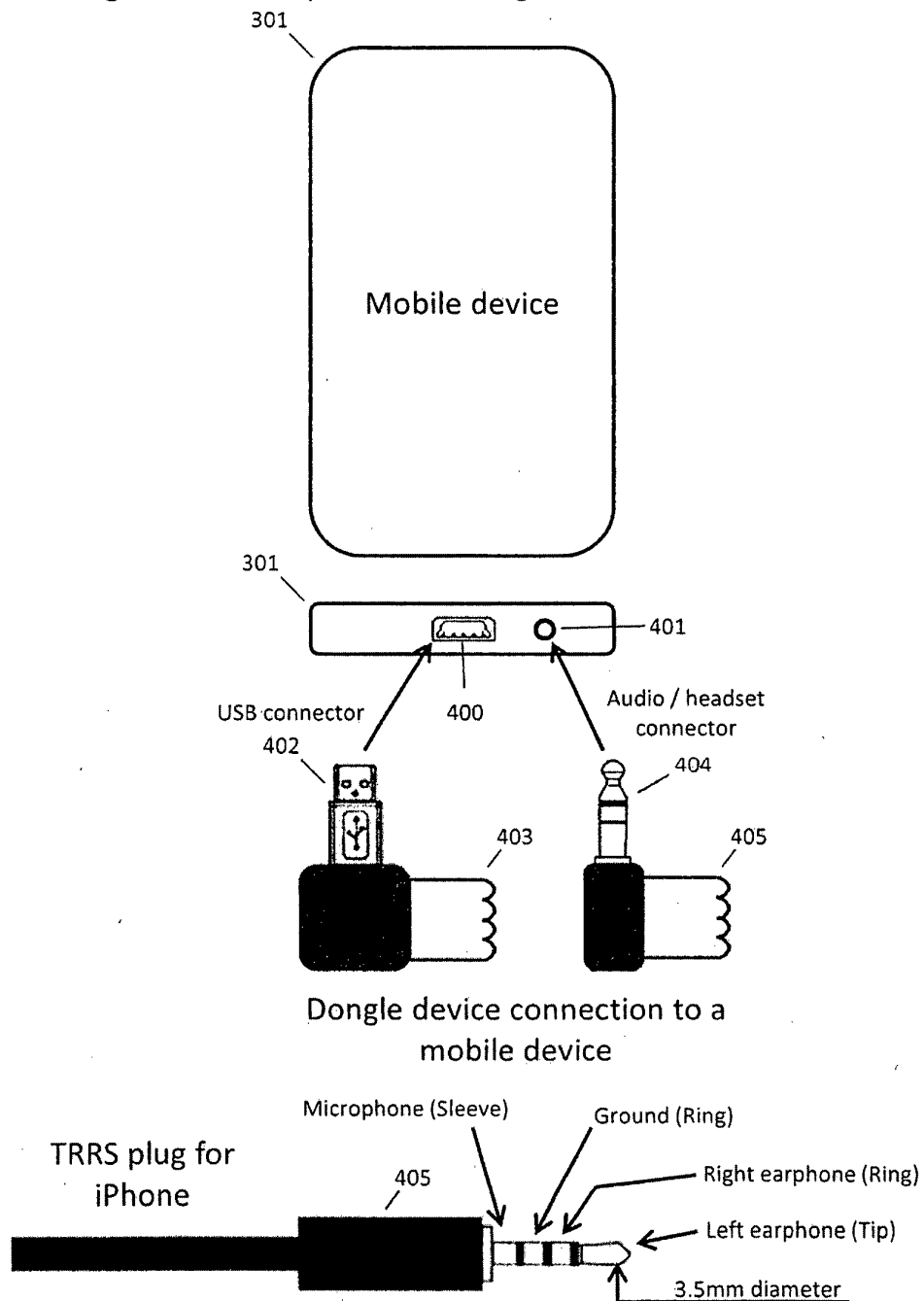
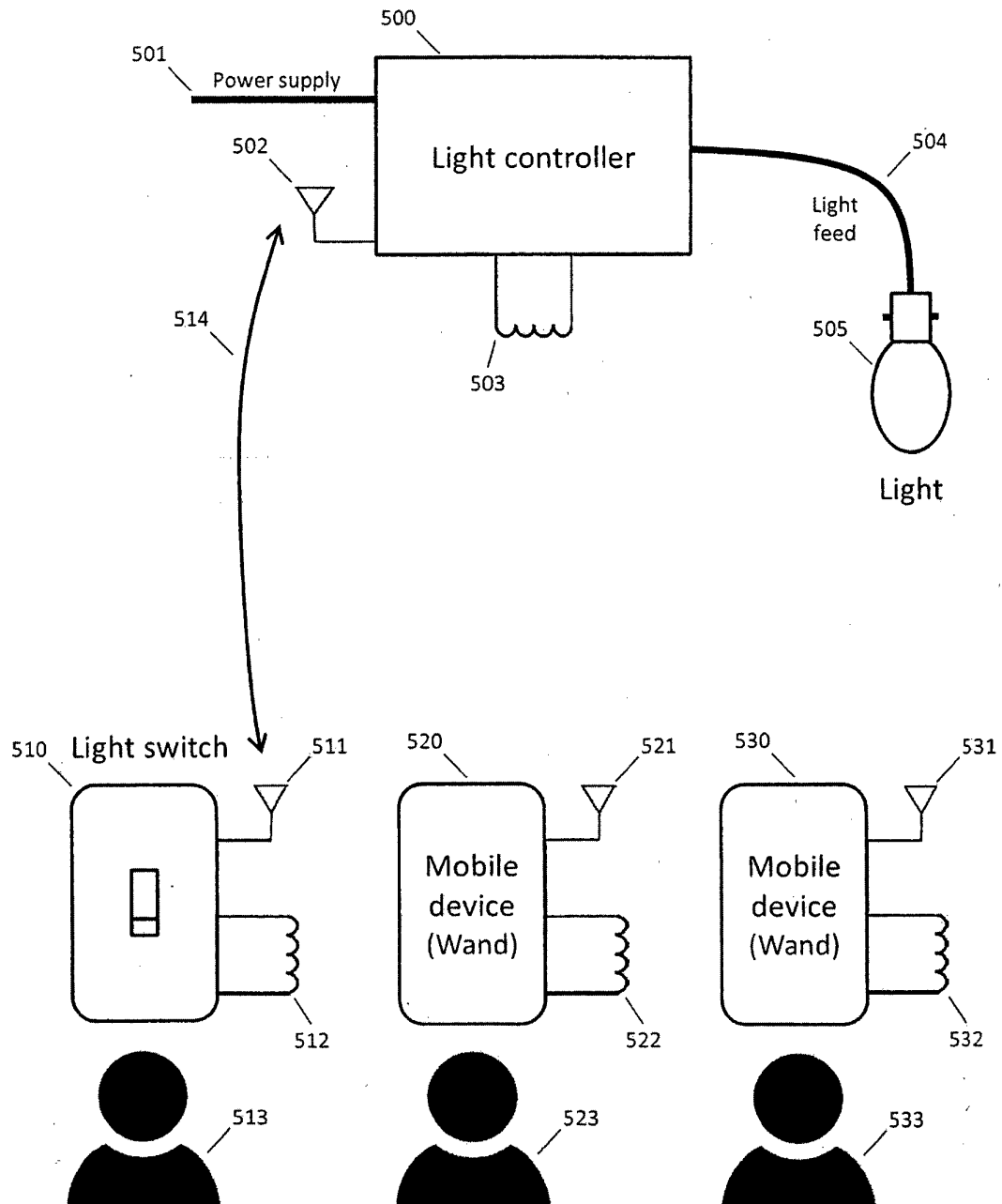


Figure 4

A light switch and light controller arrangement

**Figure 5**

A block diagram of a battery-less light switch in close proximity to an external device

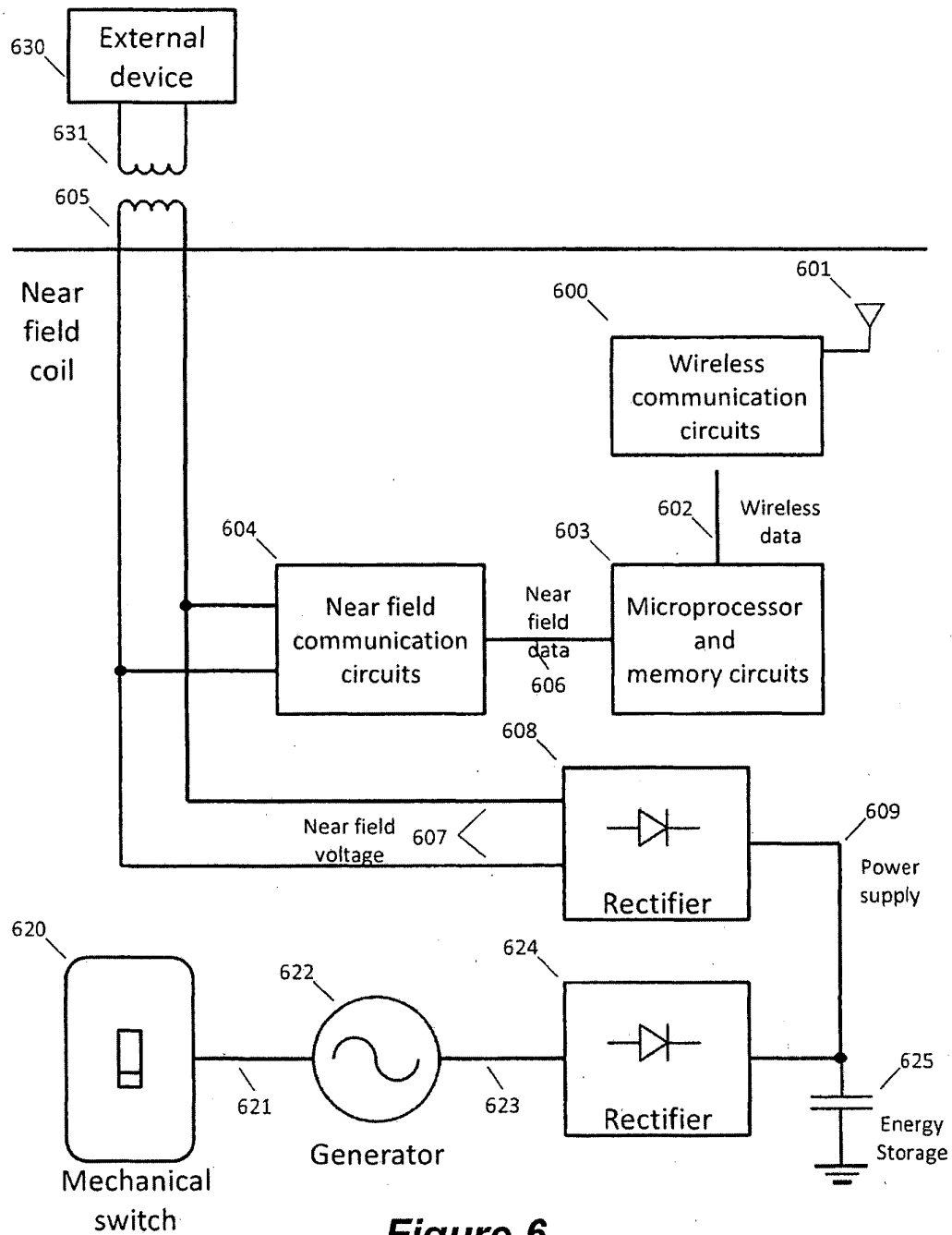


Figure 6

A generator arrangement

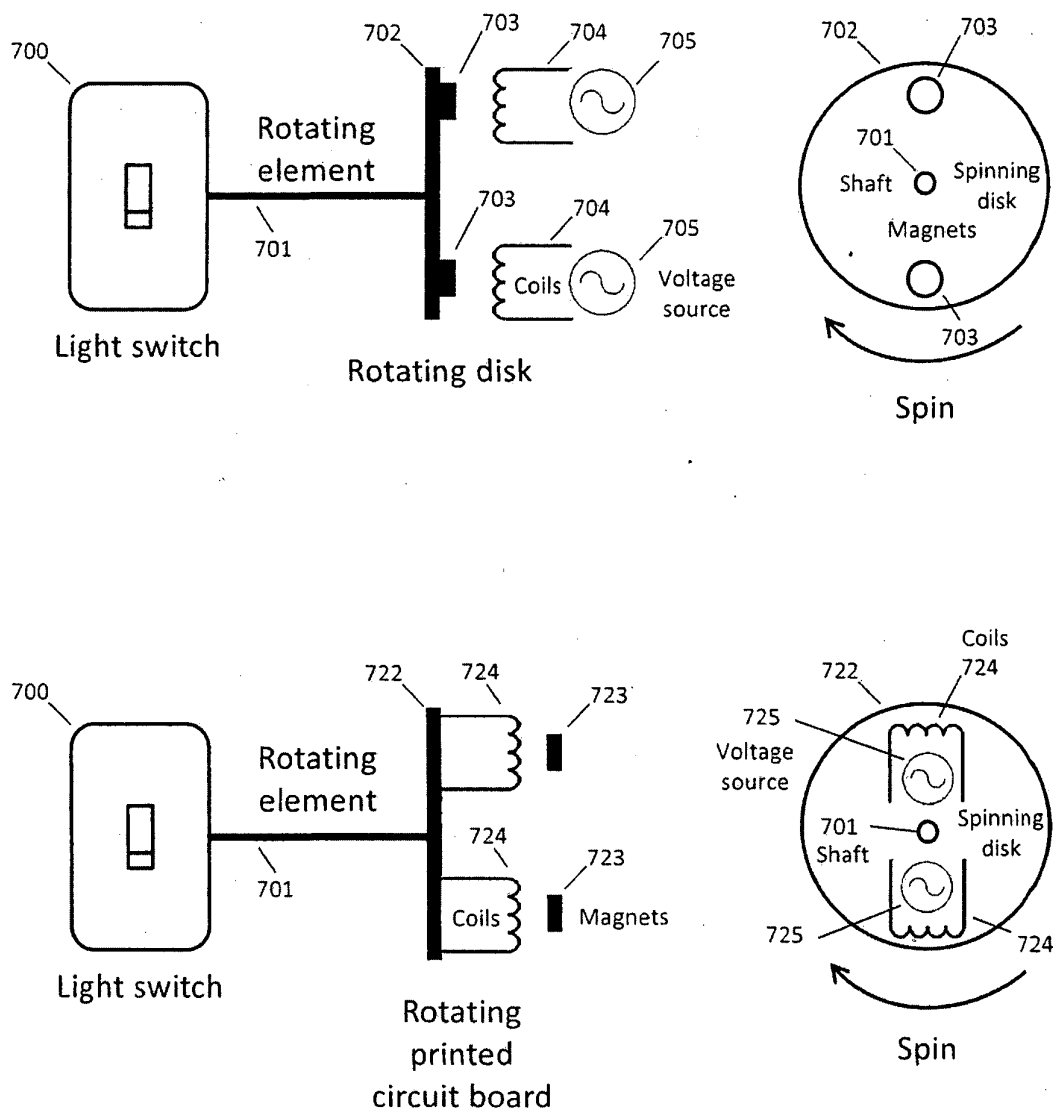
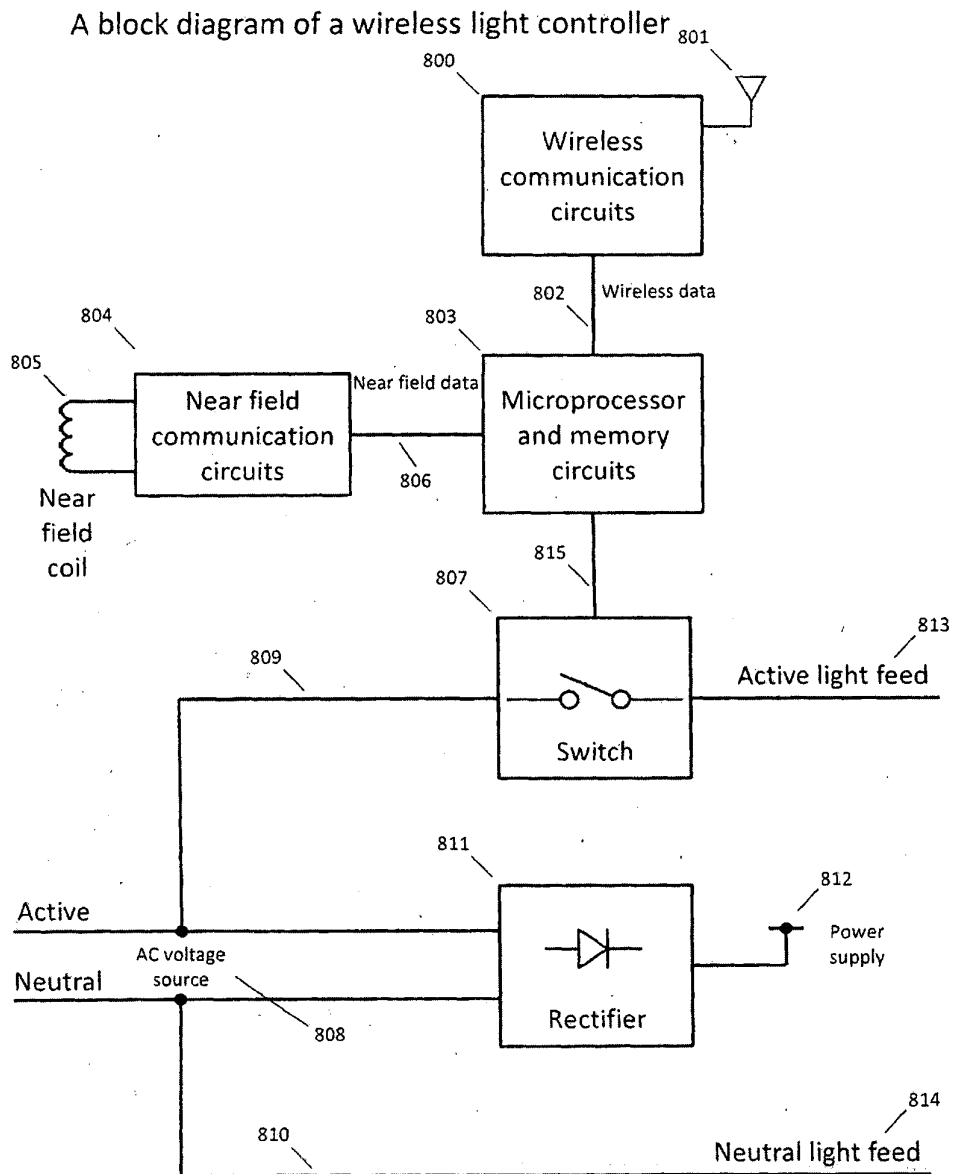
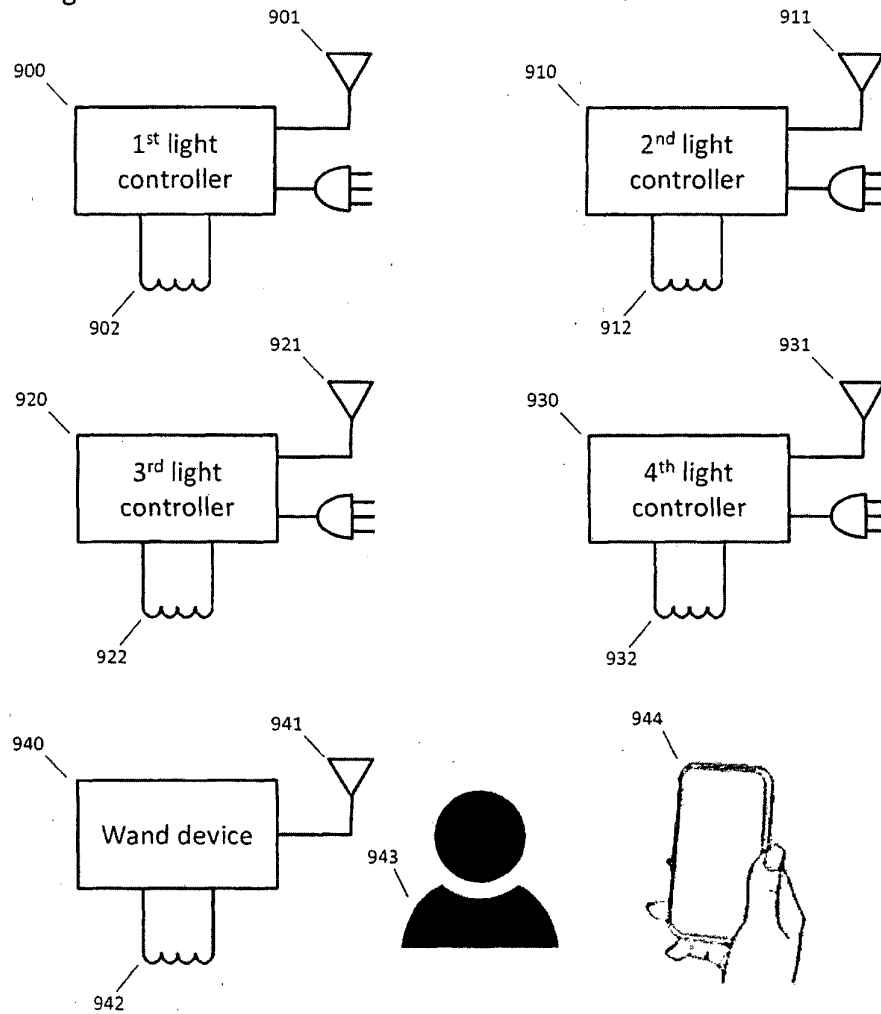


Figure 7

**Figure 8**

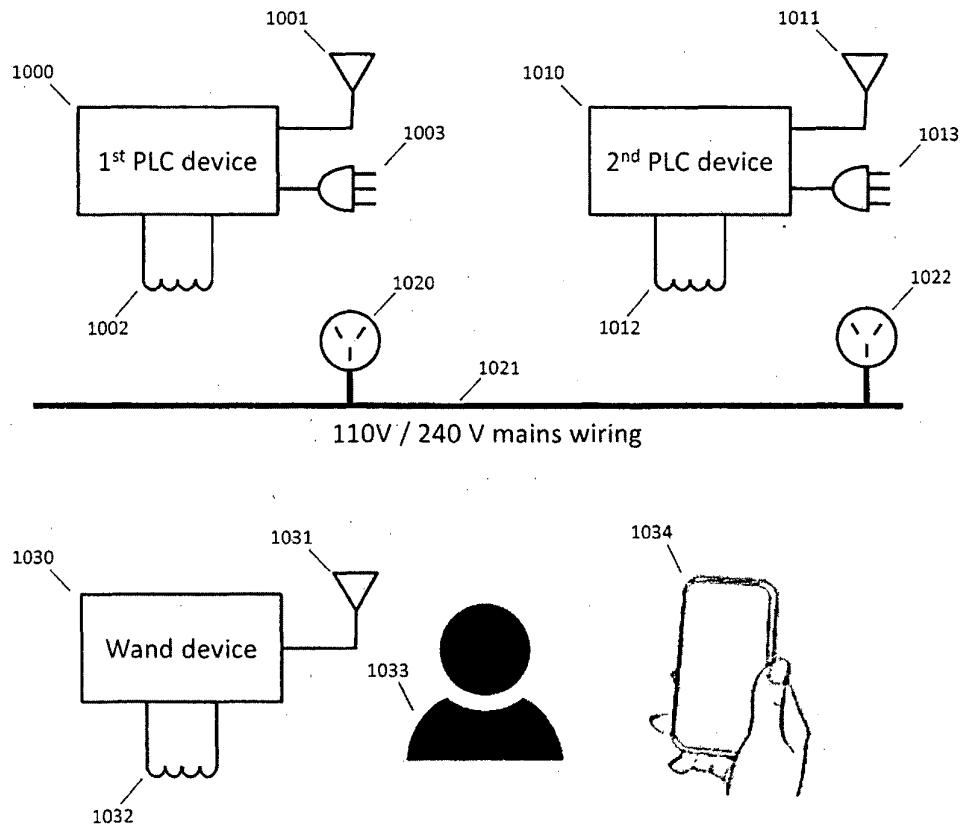
Arrangement of multiple devices connected to a wireless network using a wand



User accessing a wand device being a mobile device

Figure 9

Arrangement of multiple PLC gateways and a wand device



User accessing a wand device being a mobile device

Figure 10

Arrangement including a PLC gateway, multiple PLC discoverable light controllers and a wireless light switch

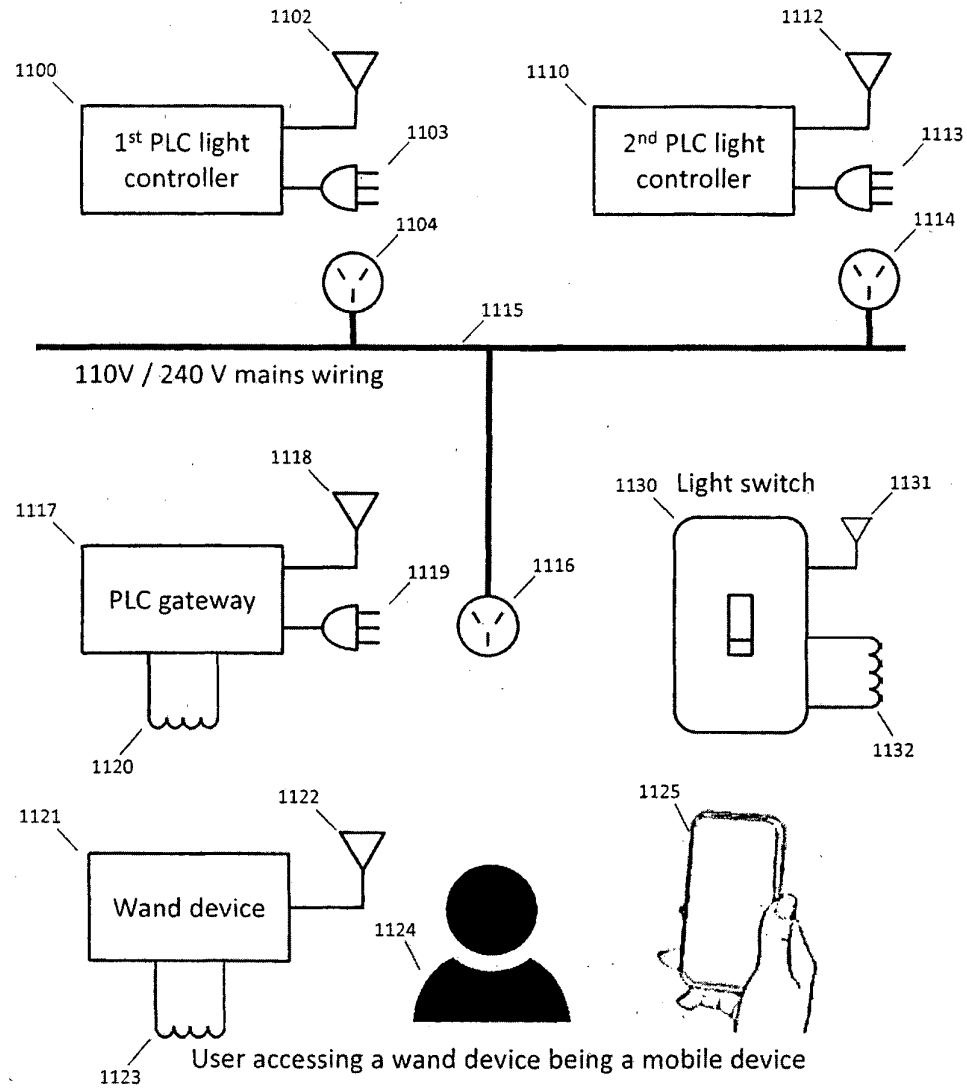
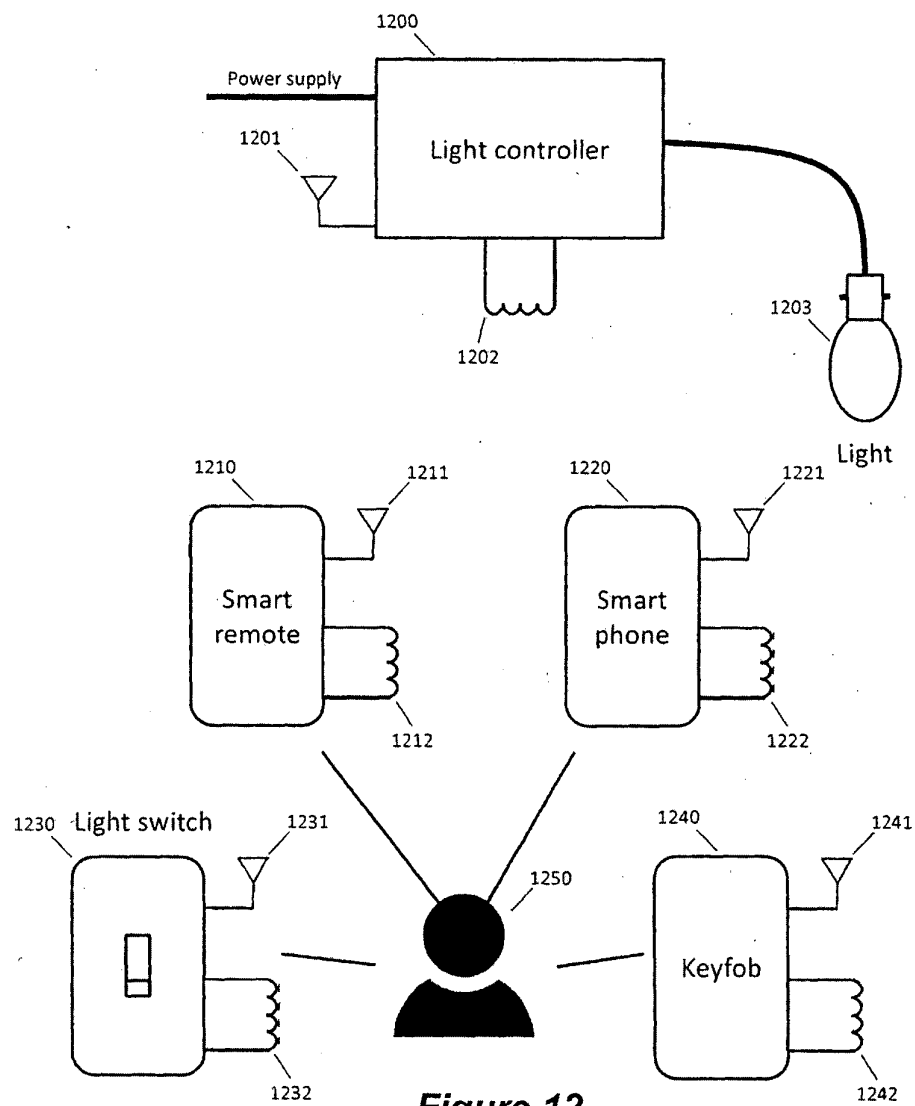


Figure 11

An arrangement of multiple light switches controlling a light controller



Device with integrated near field
data communication mechanism

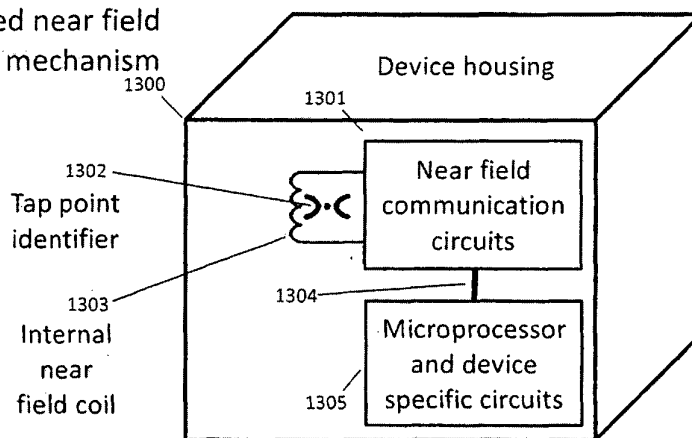


Figure 13a

Device with a remotely located near
field data communication mechanism

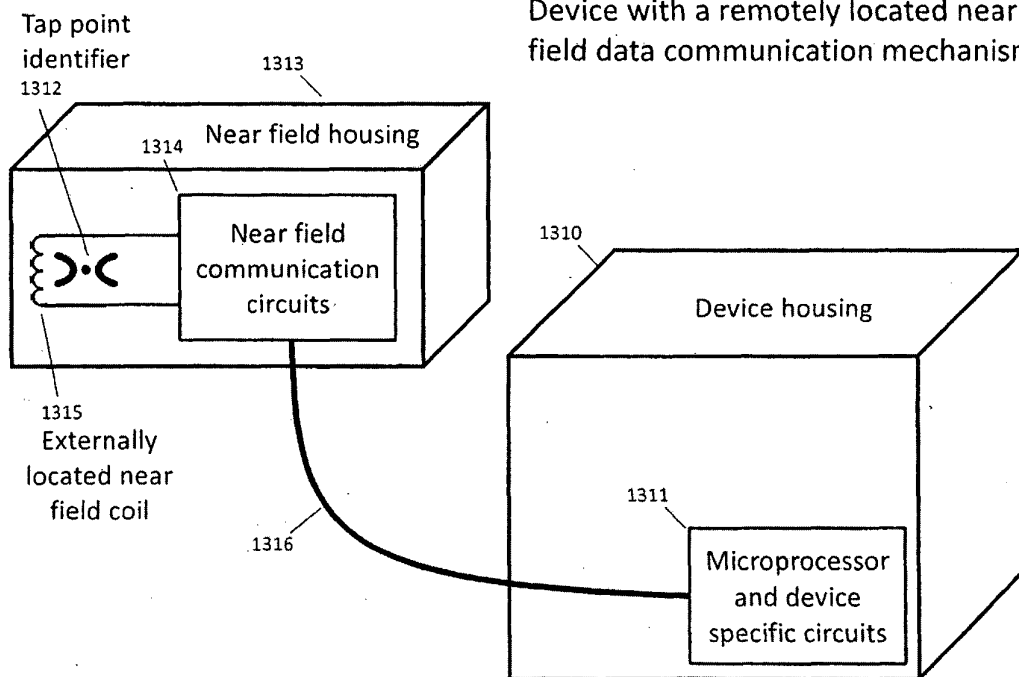


Figure 13b

An arrangement of a fixed device with a remote coil

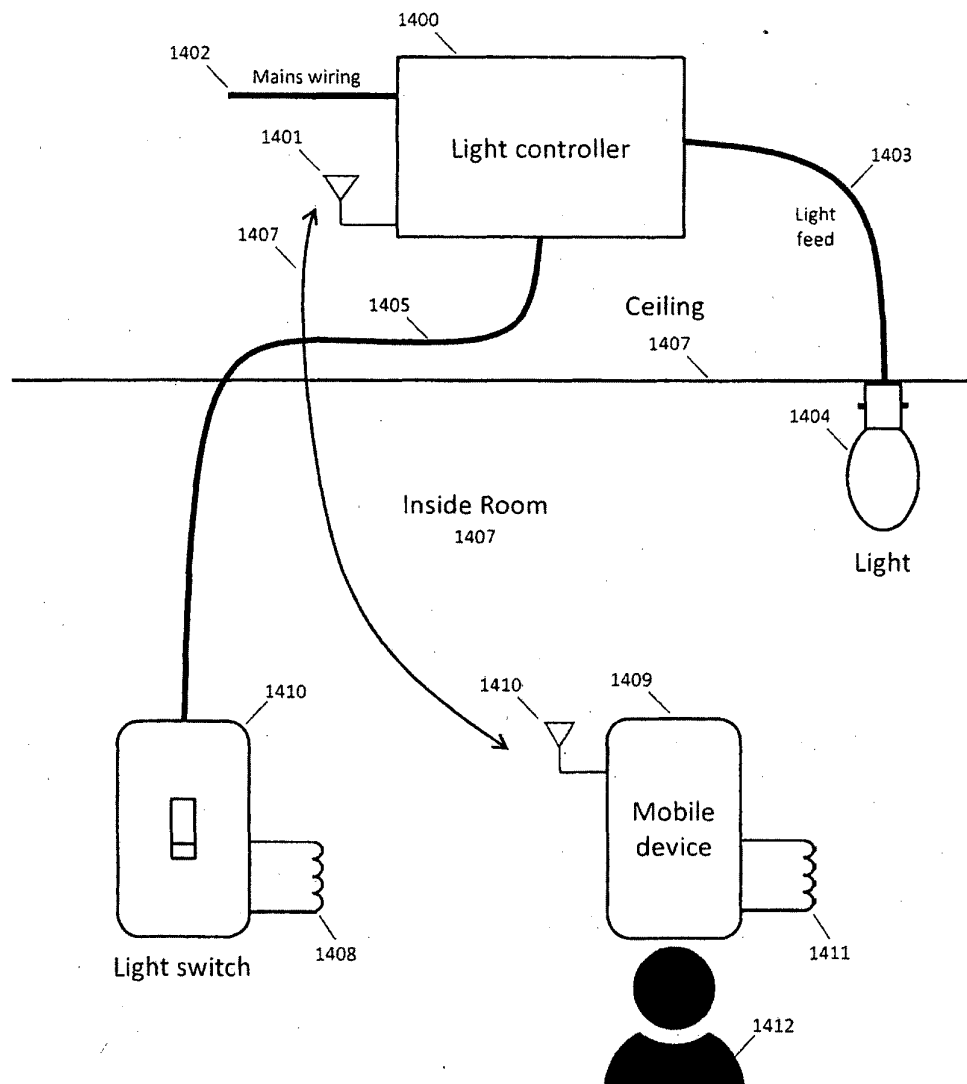
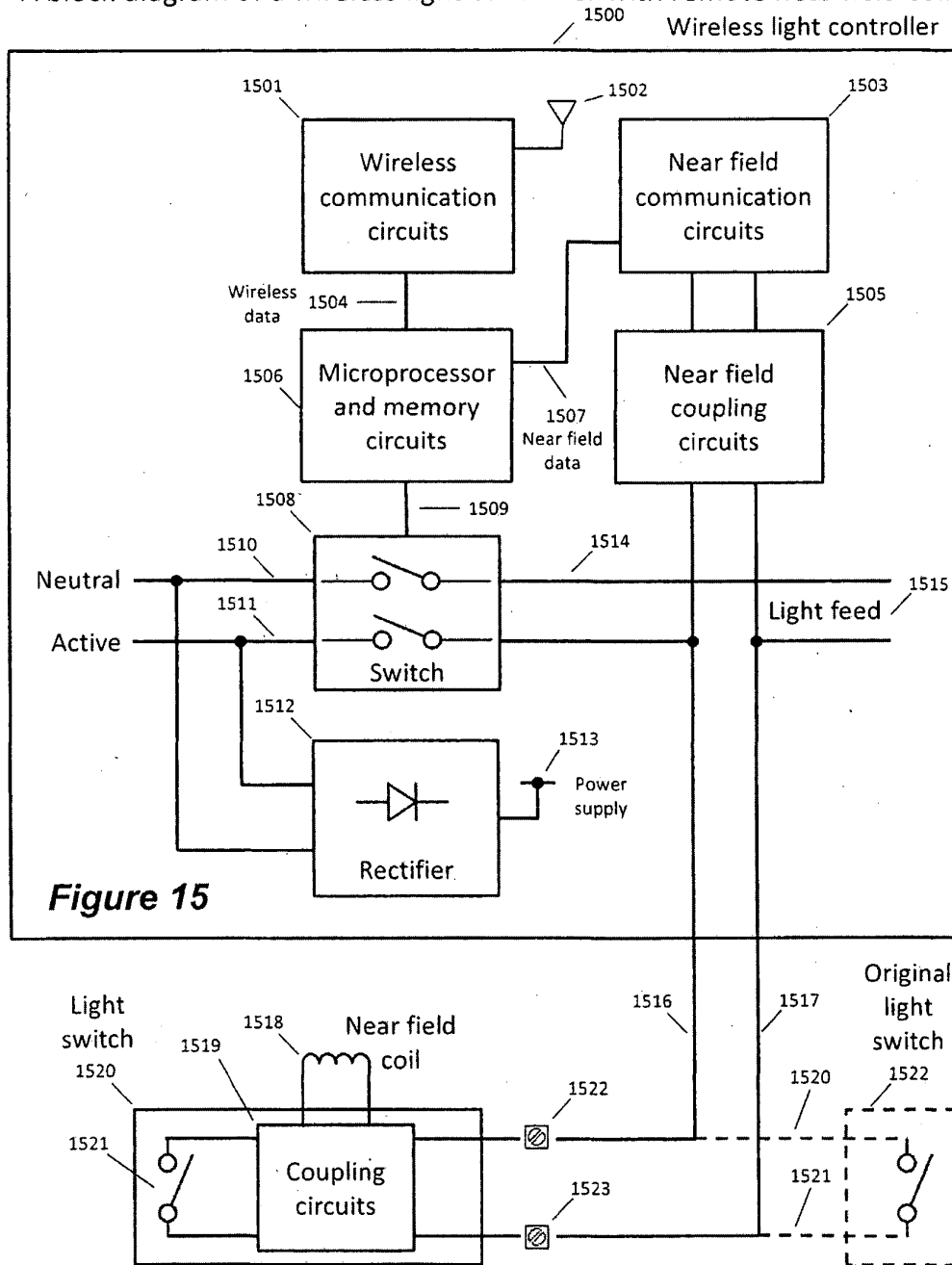


Figure 14

A block diagram of a wireless light controller with remote near field coil



A block diagram of the processor circuits in a dongle device

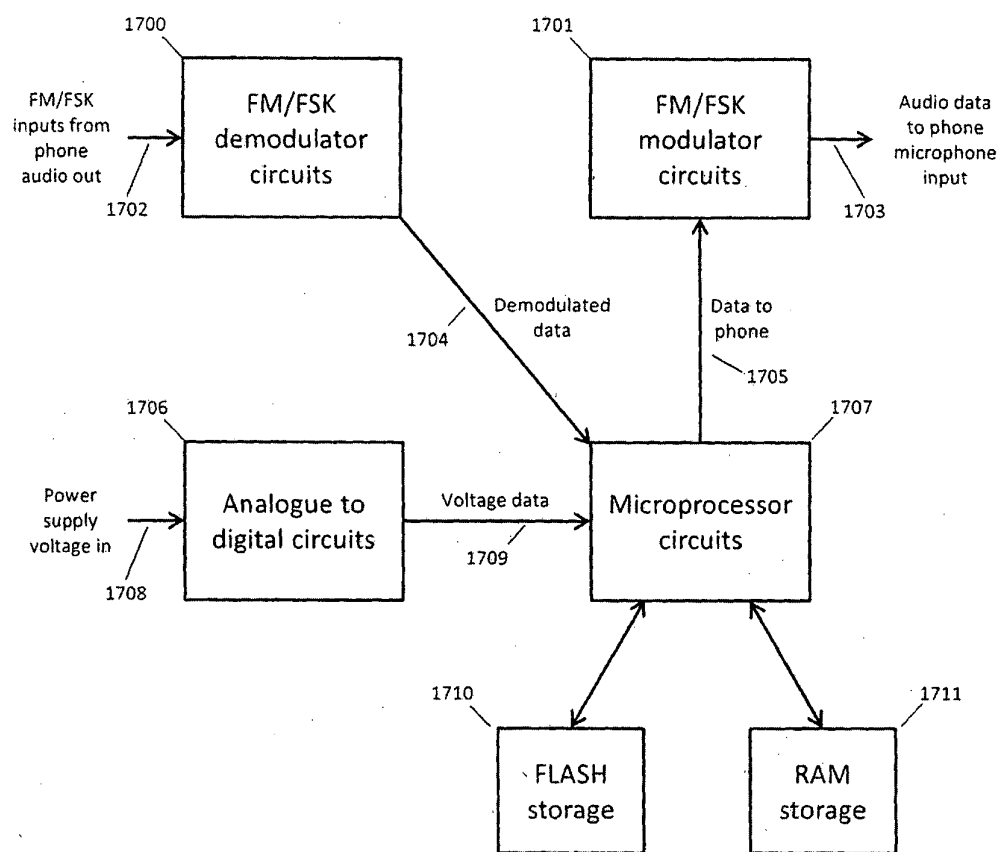
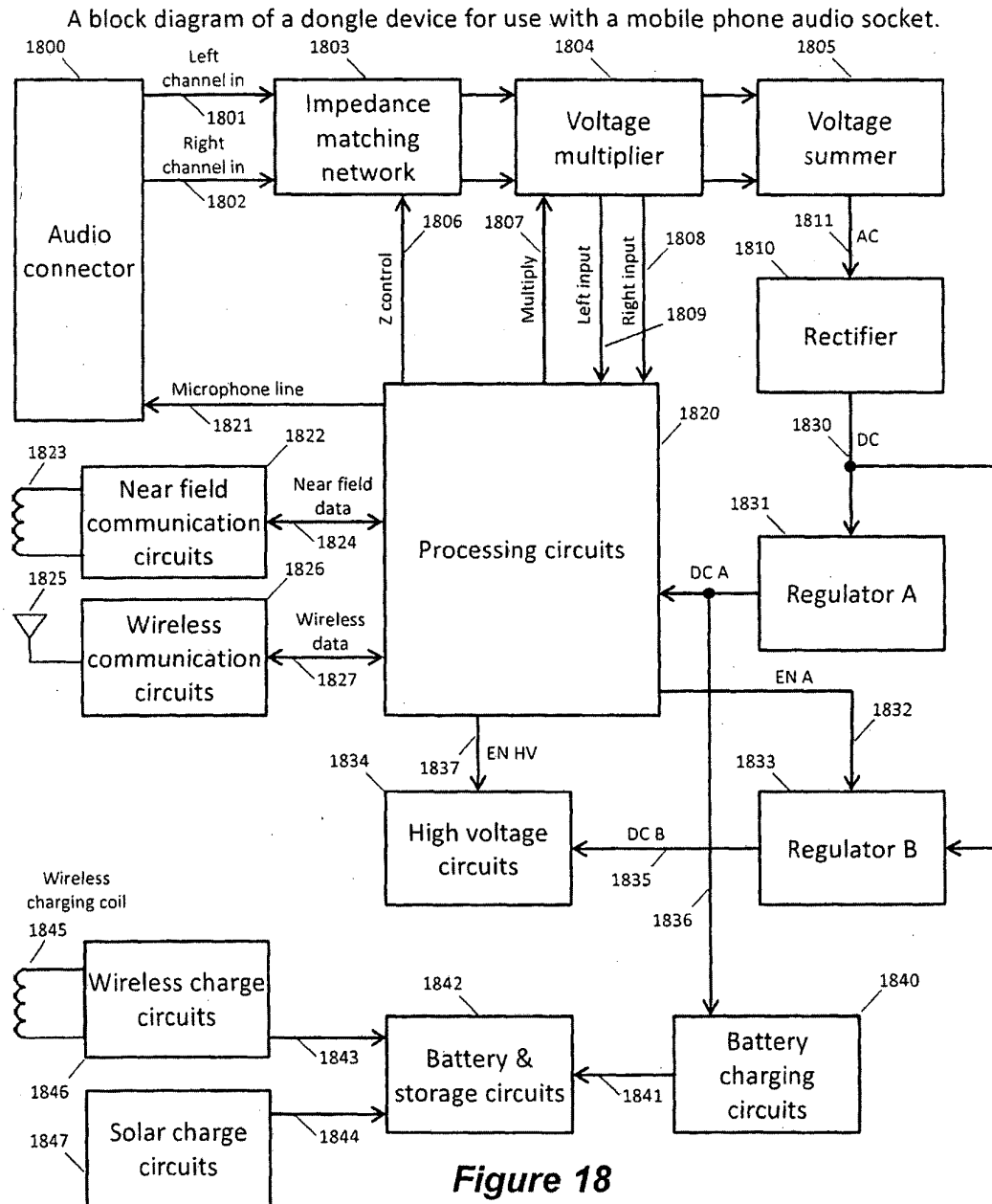
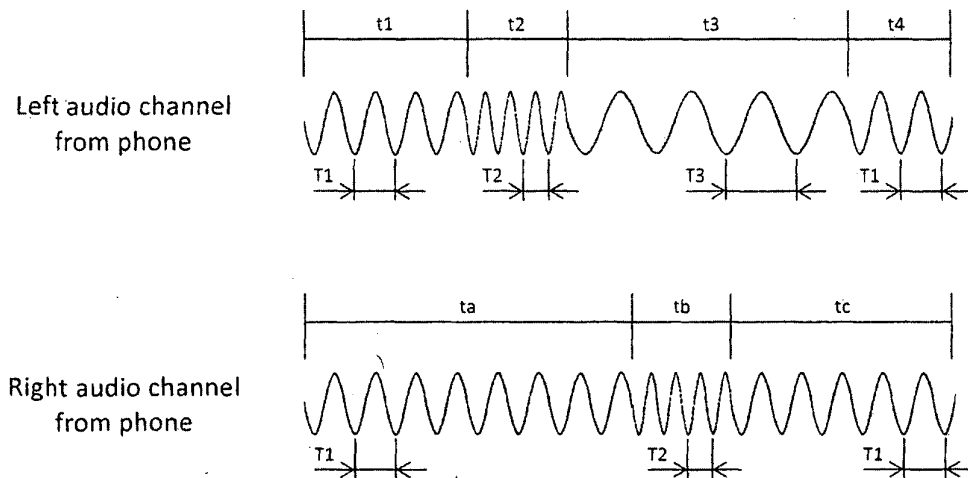


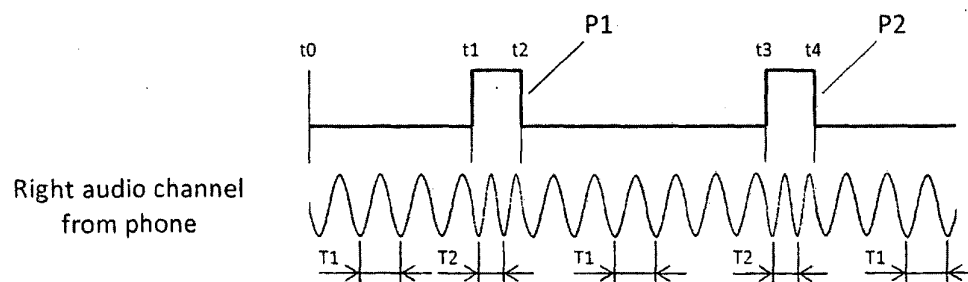
Figure 17



Audio channel data modulation

**Figure 19A**

Audio channel data modulation for near field ping data communication

**Figure 19B**

Impedance matching the phone to the dongle device

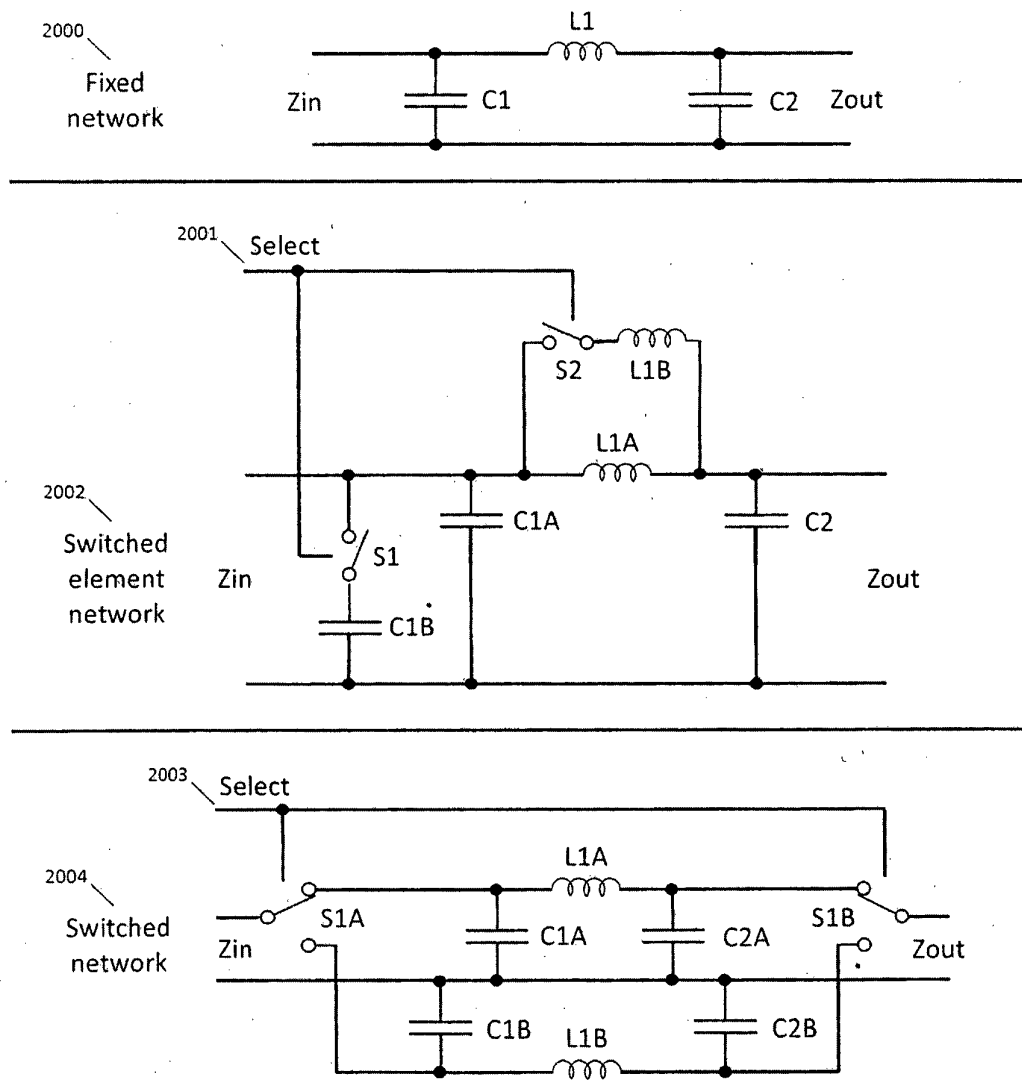


Figure 20

Voltage detection circuits used for adjusting a voltage multiplier

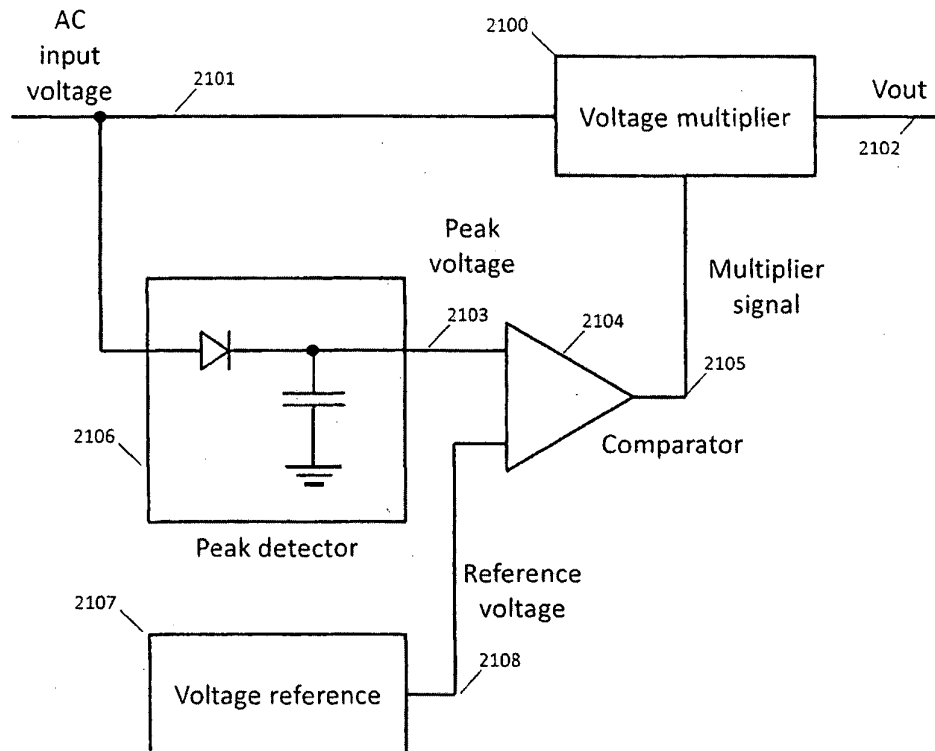


Figure 21

User selectable devices in a gateway arrangement

Step 1:

User taps a wand to a gateway and 5 other devices and assigns nicknames

2200 List displayed after tapping a gateway device	Gateway Devices 2201	Devices 2202	2203 2204 List displayed after tapping 5 devices
	Lounge Light 1 Lounge Light 2 Lounge Light 3 Lounge Light 4 Bedroom 1 Light Bedroom 2 Light Hall Light	Hall Light Switch Front Hall Light Switch Back Lounge Light Switch Bedroom 1 Light Switch Bedroom 2 Light Switch	

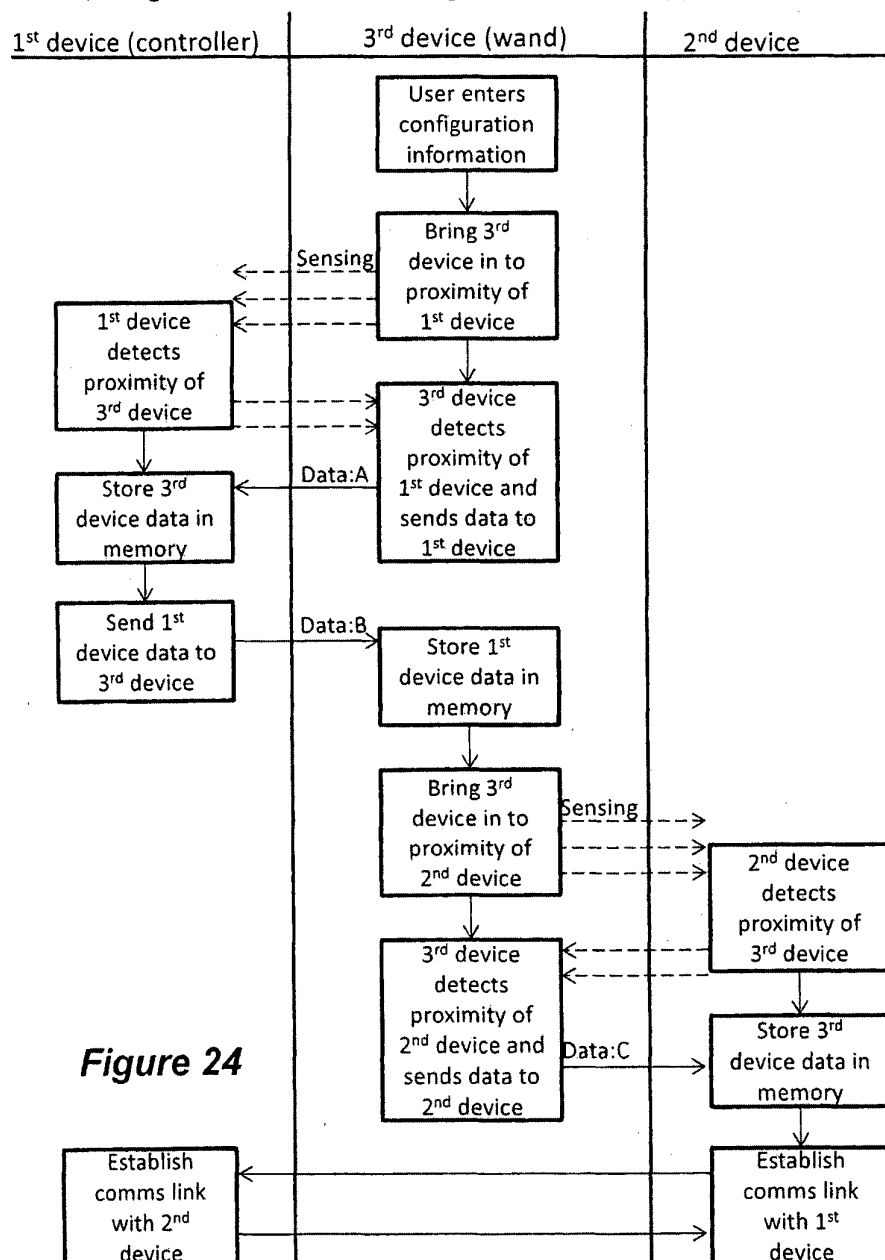
Step 2:

User drags devices into matched groups

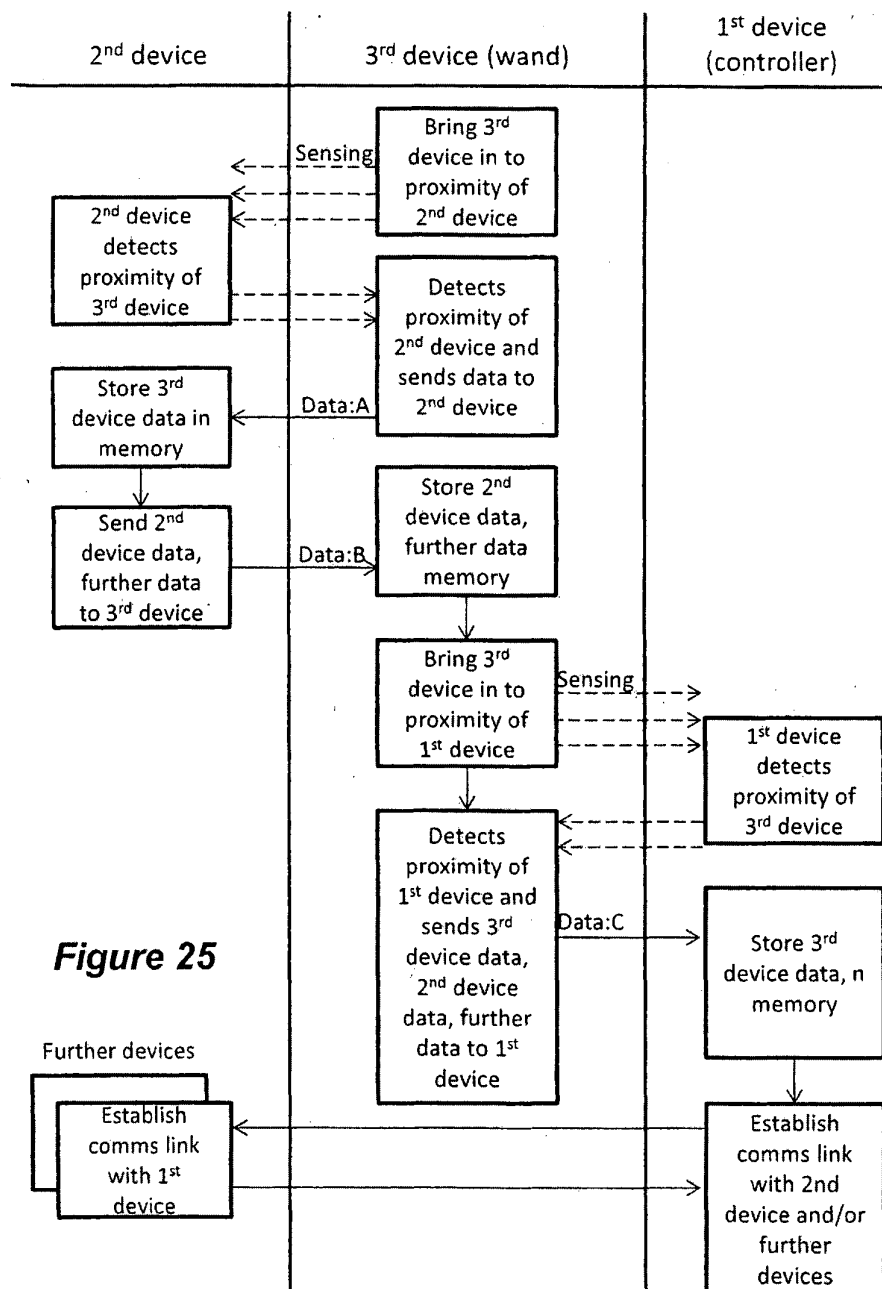
2205 List displayed after grouping gateway devices	Gateway Devices 2201	Devices 21012 202	2203 2208 List displayed after grouping devices
	Lounge Light 1 Lounge Light 2 Lounge Light 3 Lounge Light 4	Lounge Light Switch	
	Bedroom 1 Light	Bedroom 1 Light Switch	
	Bedroom 2 Light	Bedroom 2 Light Switch	
	Hall Light	Hall Light Switch Front Hall Light Switch Back	

Figure 22

A method used to establish a communication link between a first and second device, using a third device and configuration details supplied by a user



A method used to establish a communication link between a first device and second device having further associated devices, using a third device



A method used to establish a transfer of electrical energy between a third device and a first device using time multiplexed carrier and data

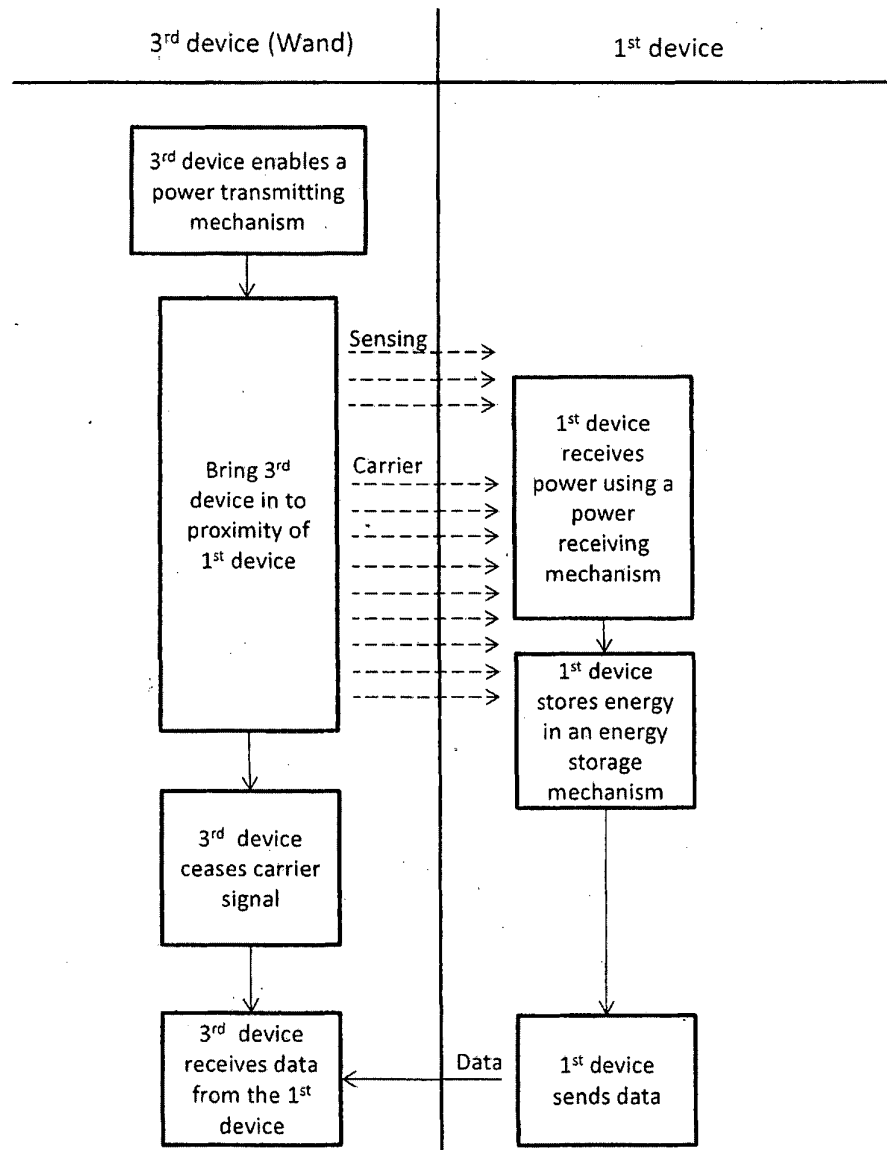


Figure 26

A method used to establish a transfer of electrical energy between a third device and a first device using time multiplexed carrier and data and an automatic detection mechanism

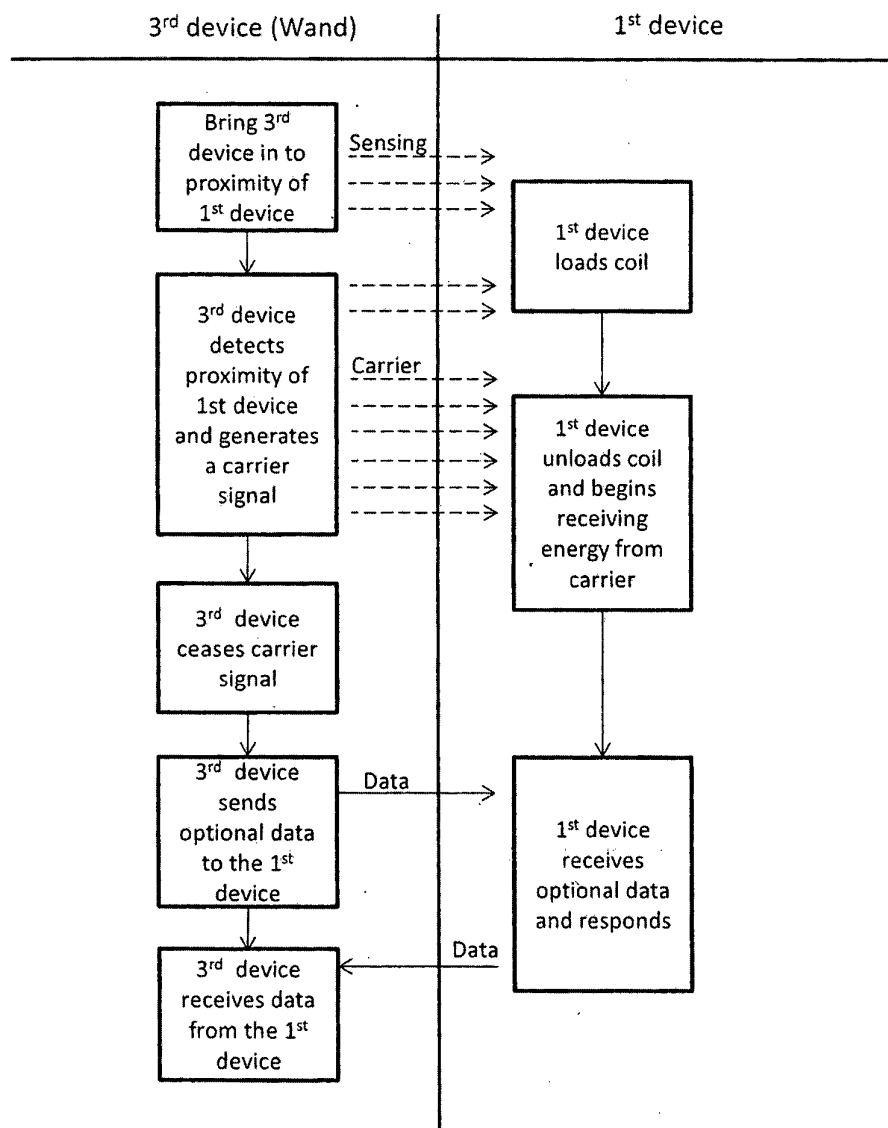


Figure 27

A method used to establish a transfer of electrical energy between a third device and a first device using a sustained carrier

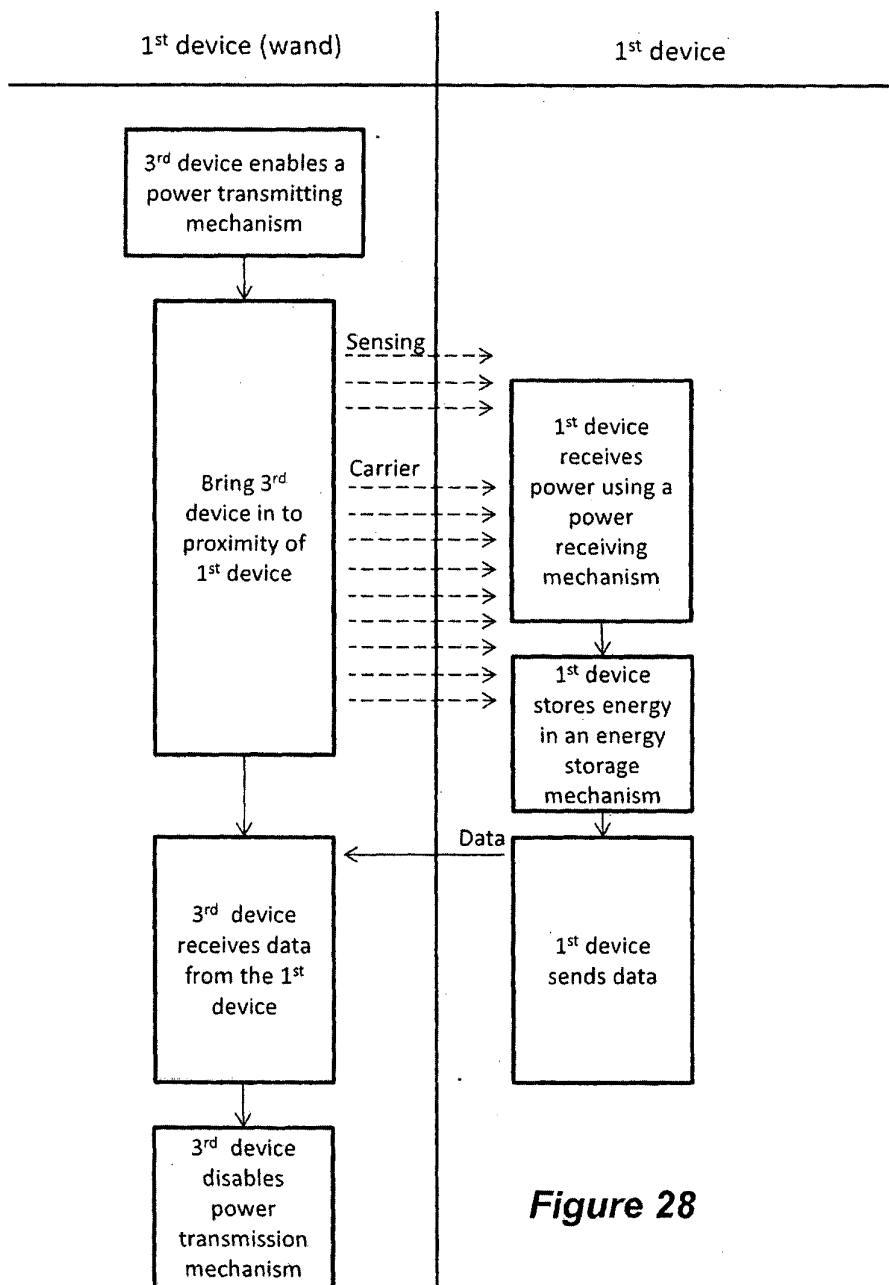


Figure 28