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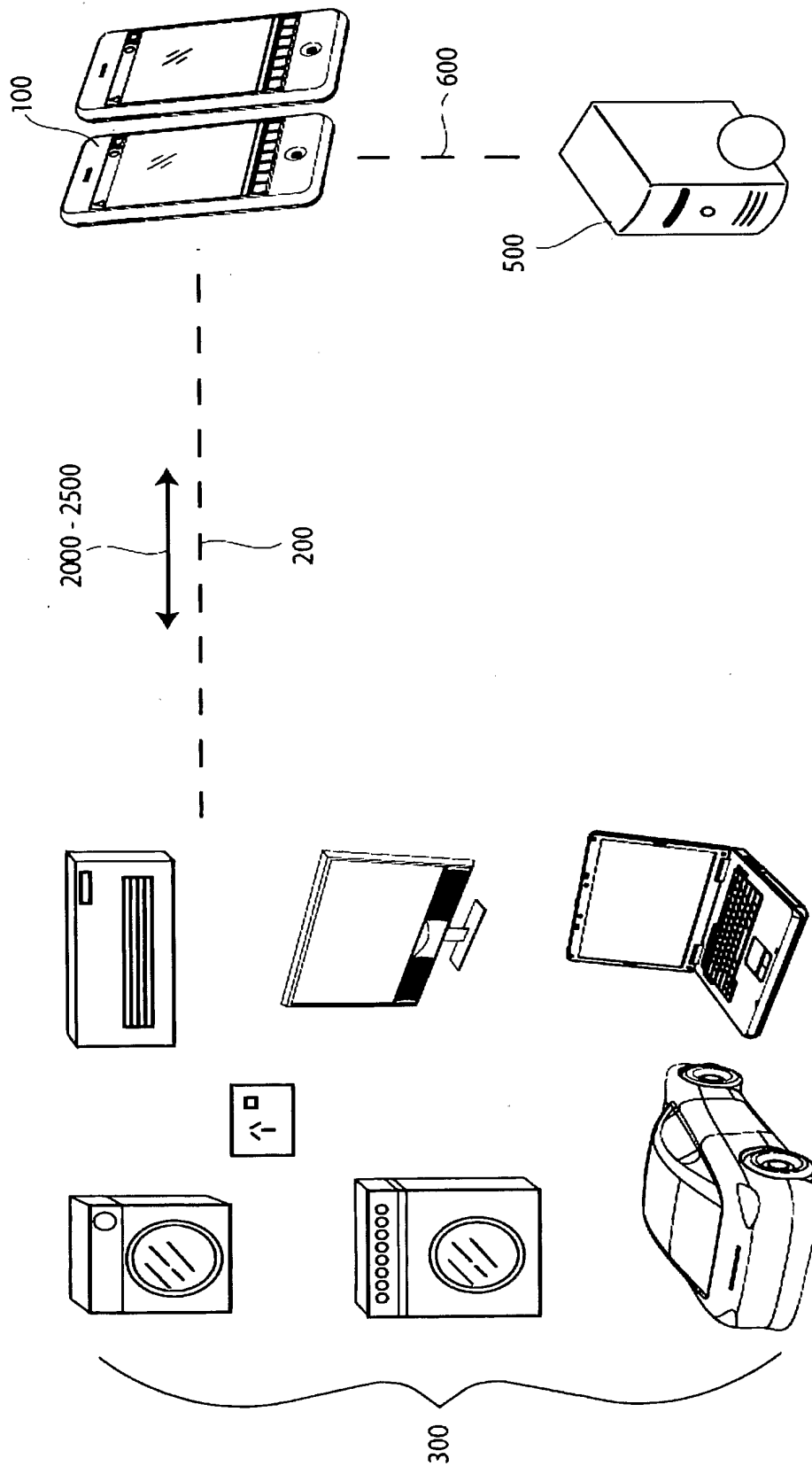


Figure 1

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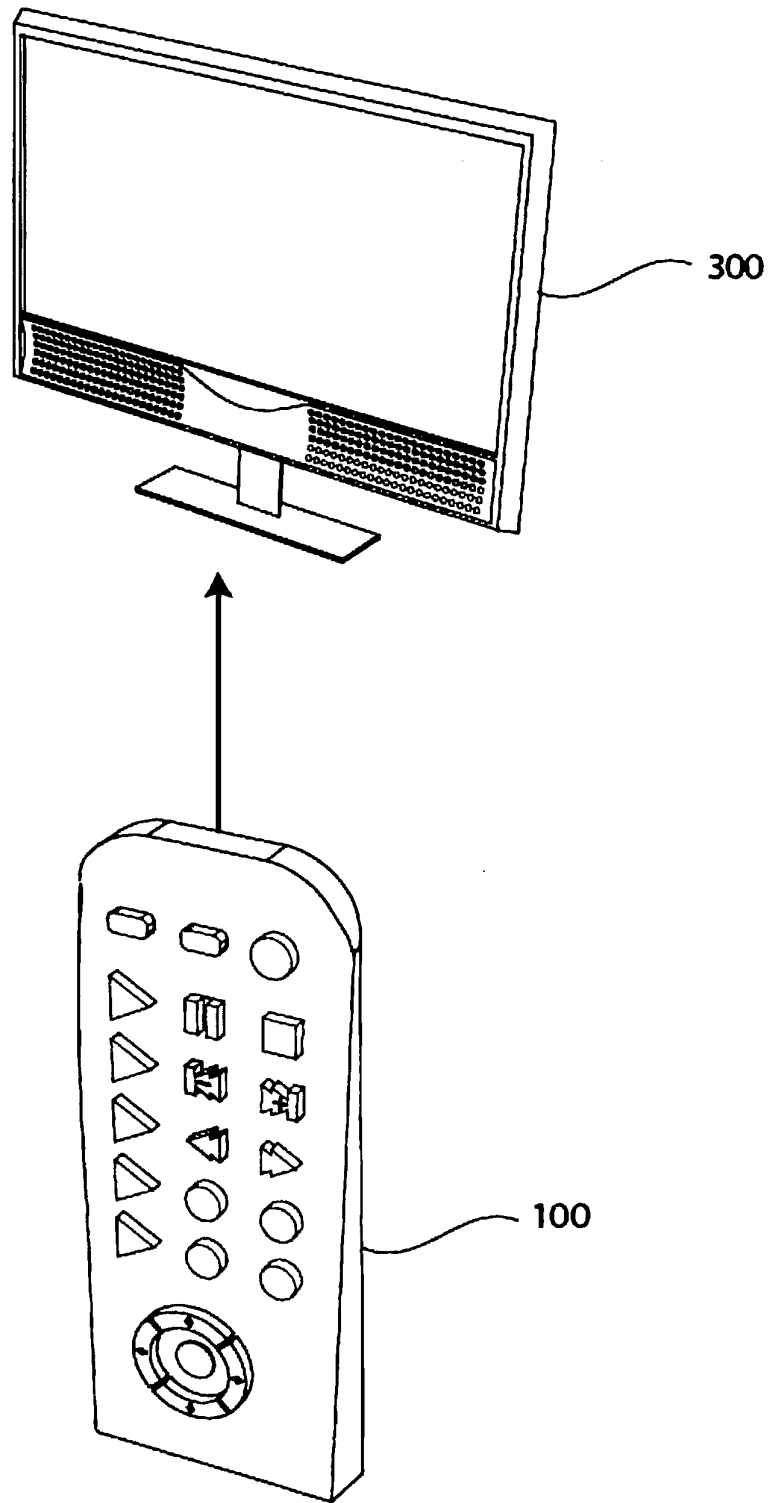
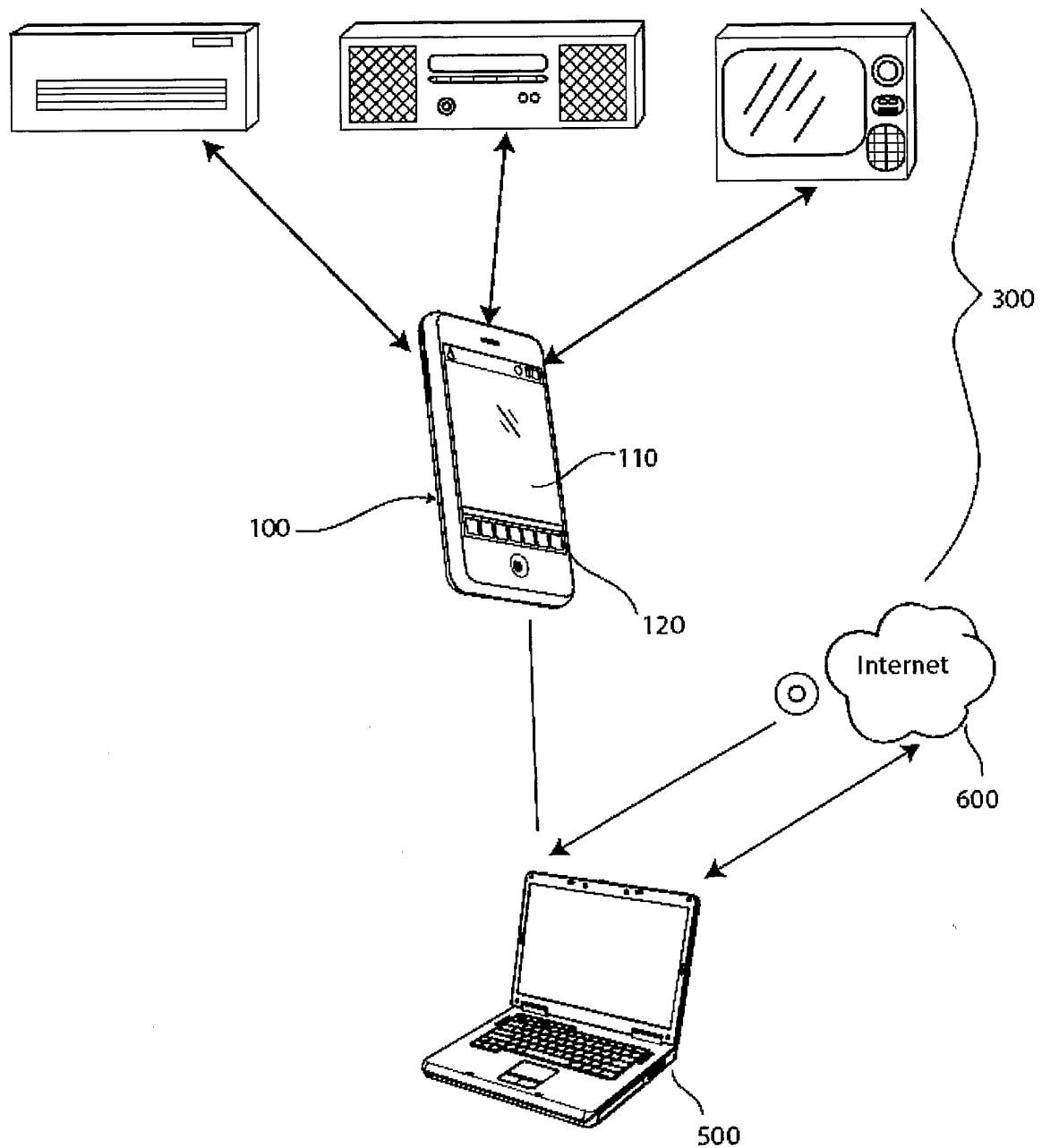
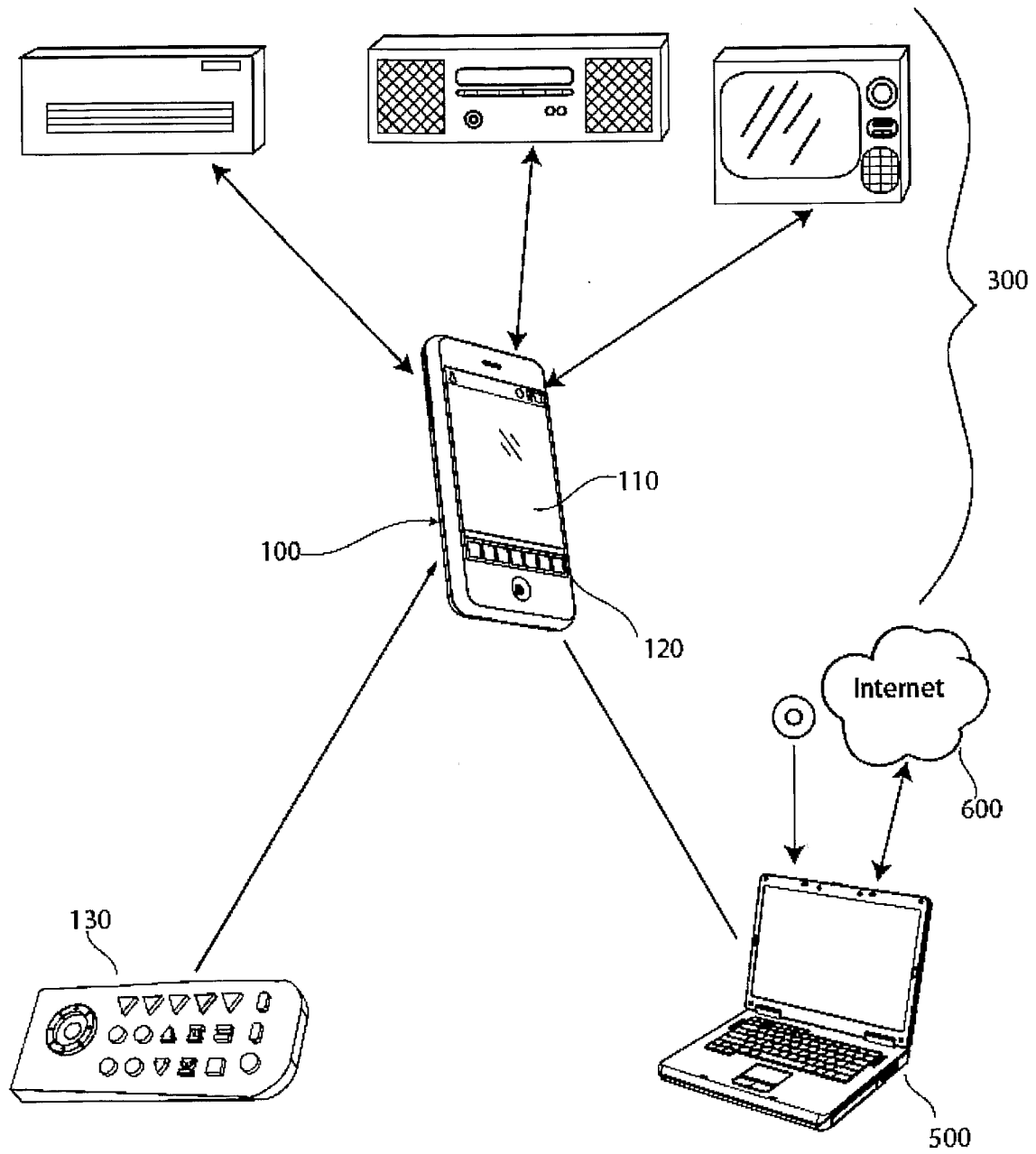


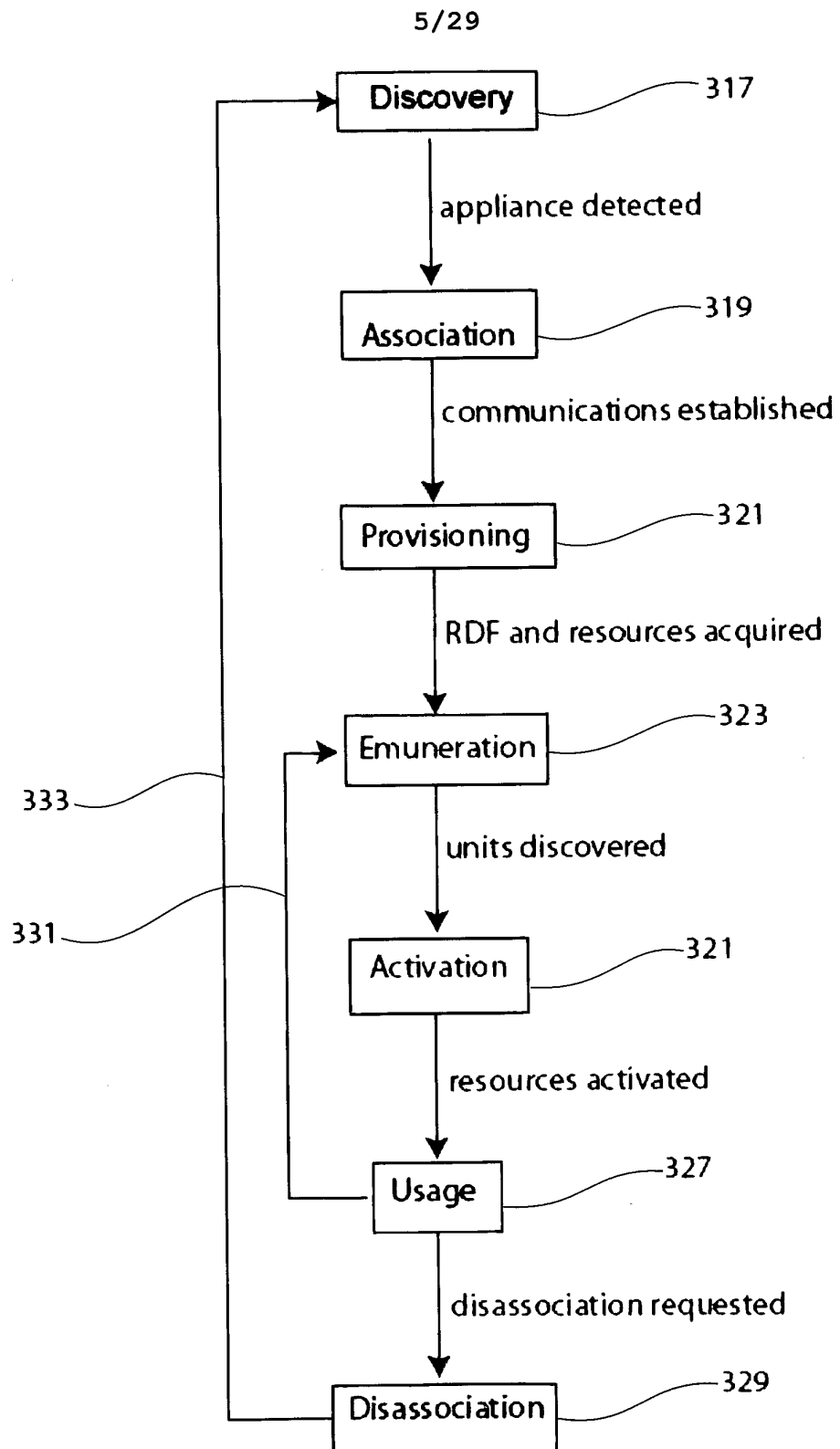
Figure 2a

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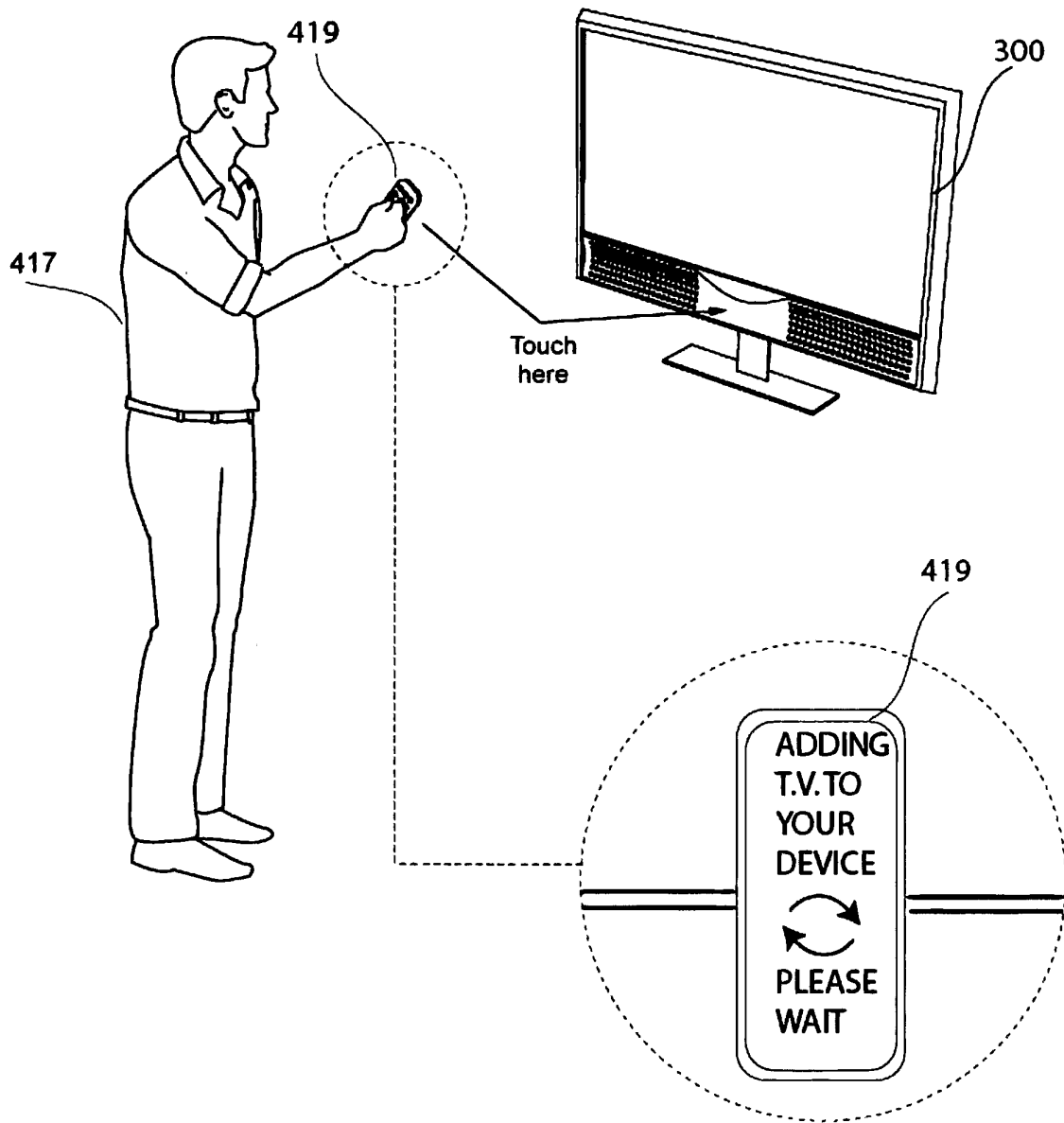
**Figure 2b**

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**Figure 2c**

**Figure 3**

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**Figure 4**

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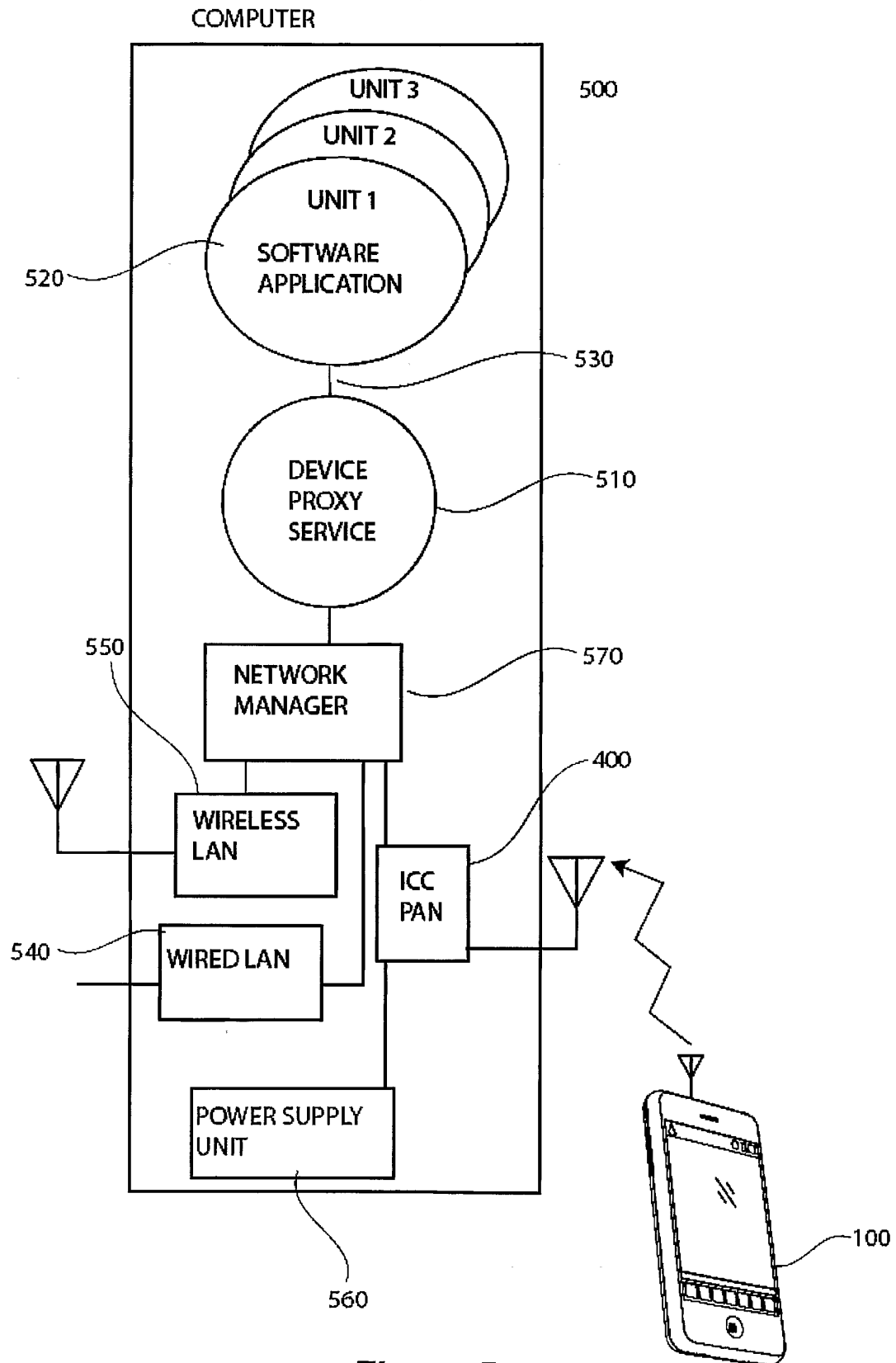
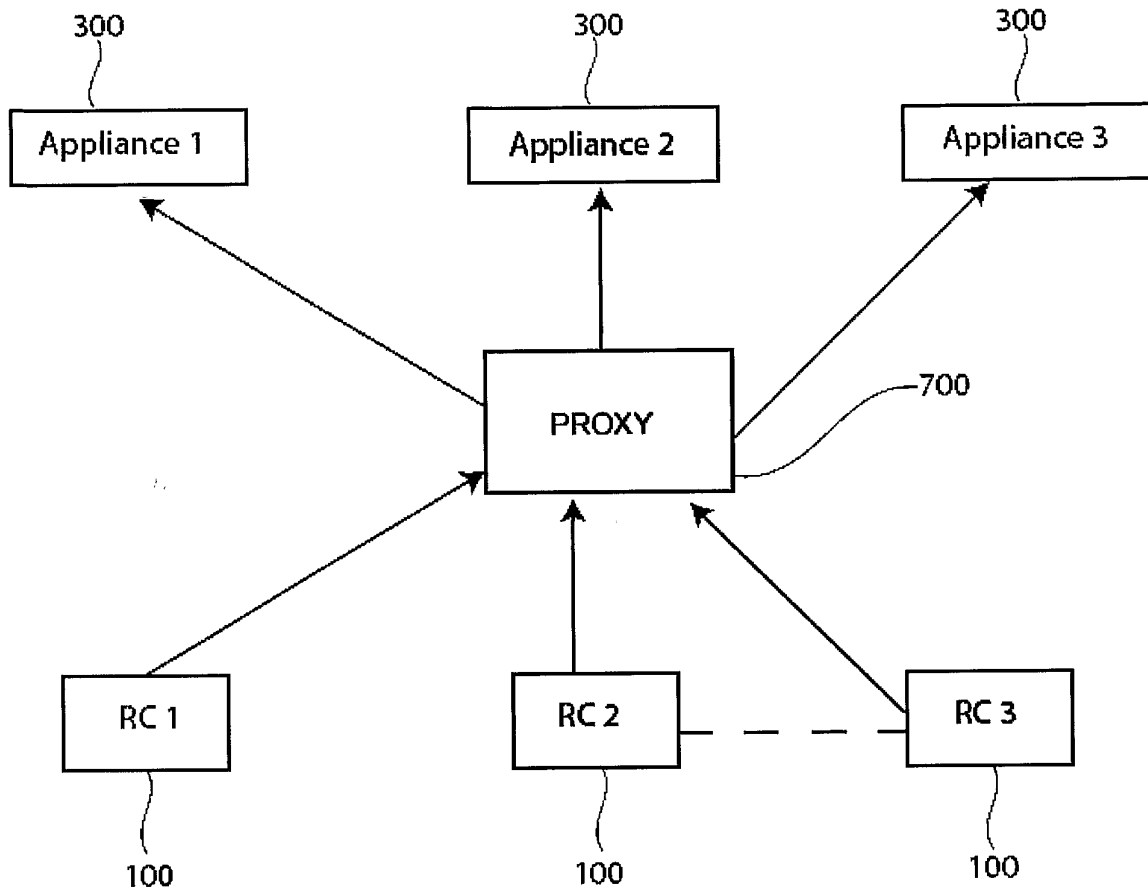
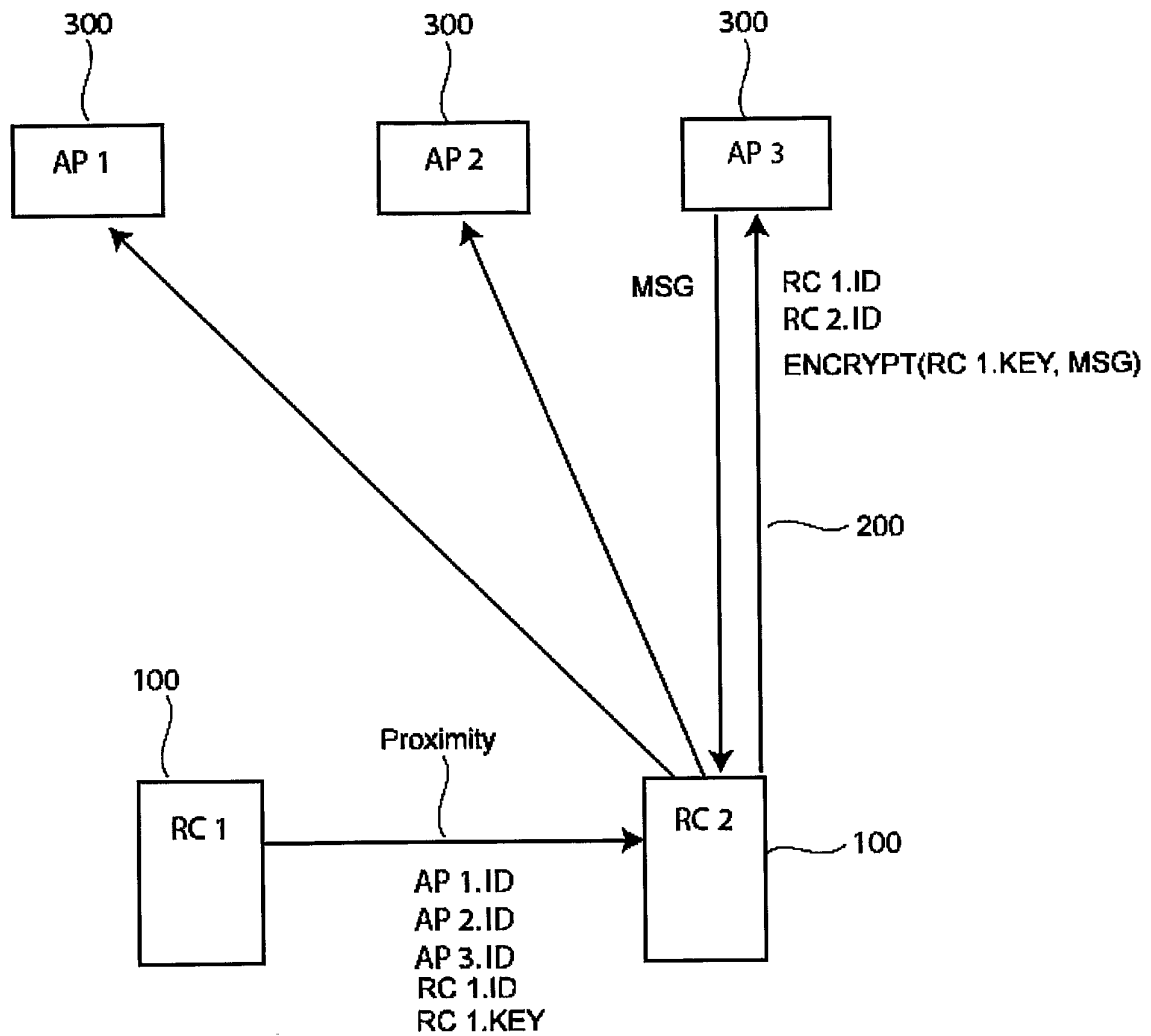


Figure 5

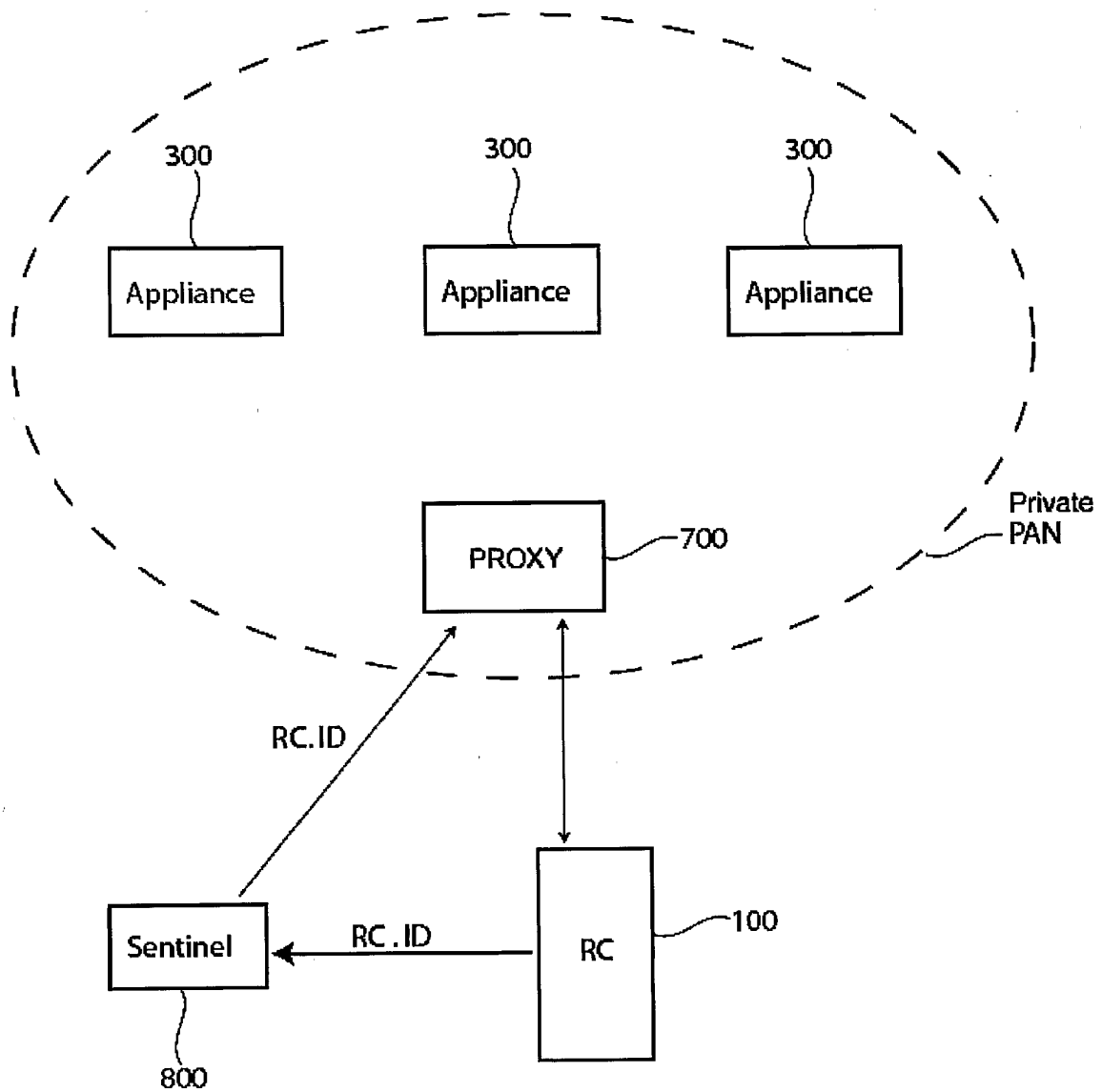
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**Figure 6**

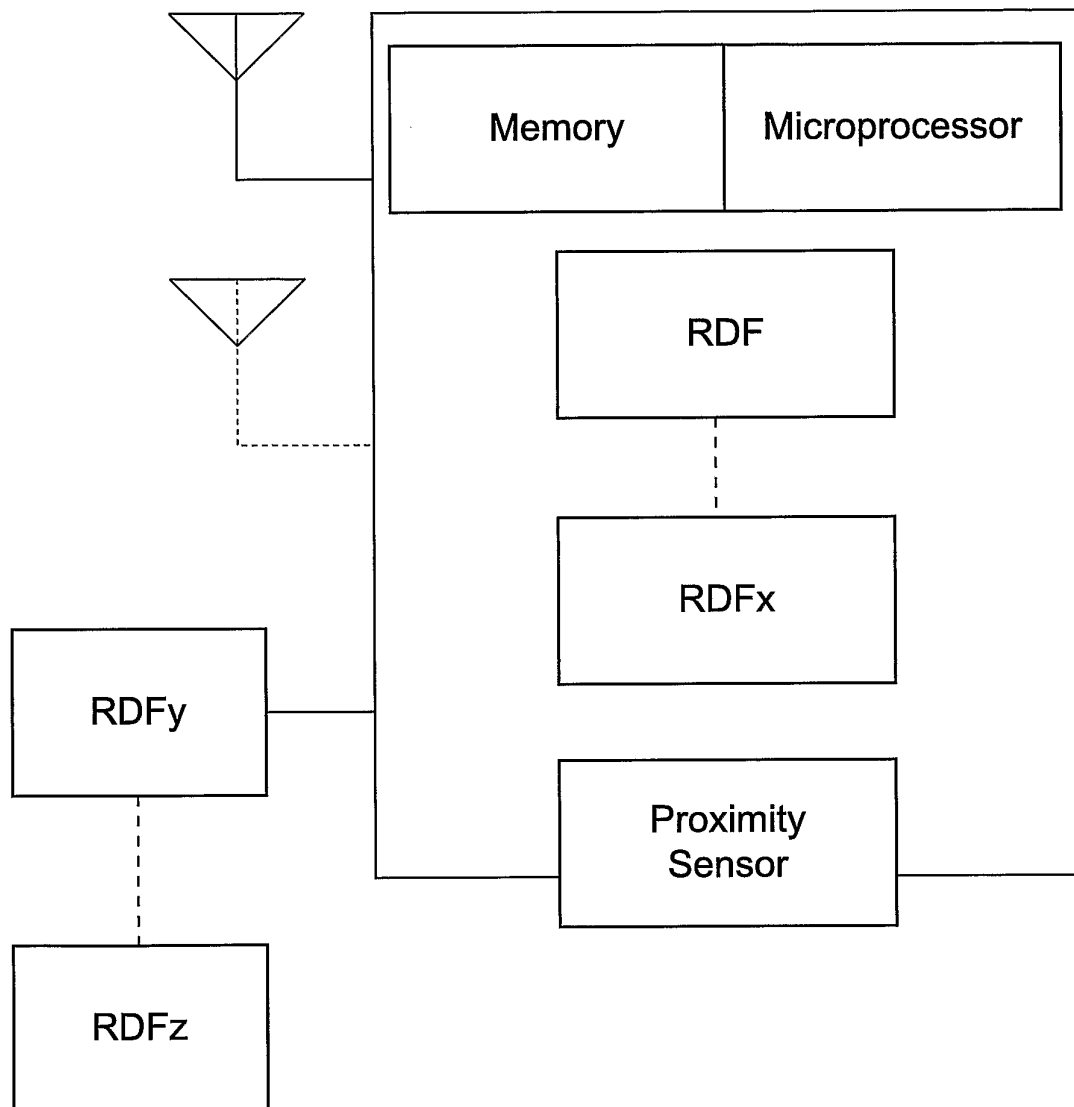
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**Figure 7**

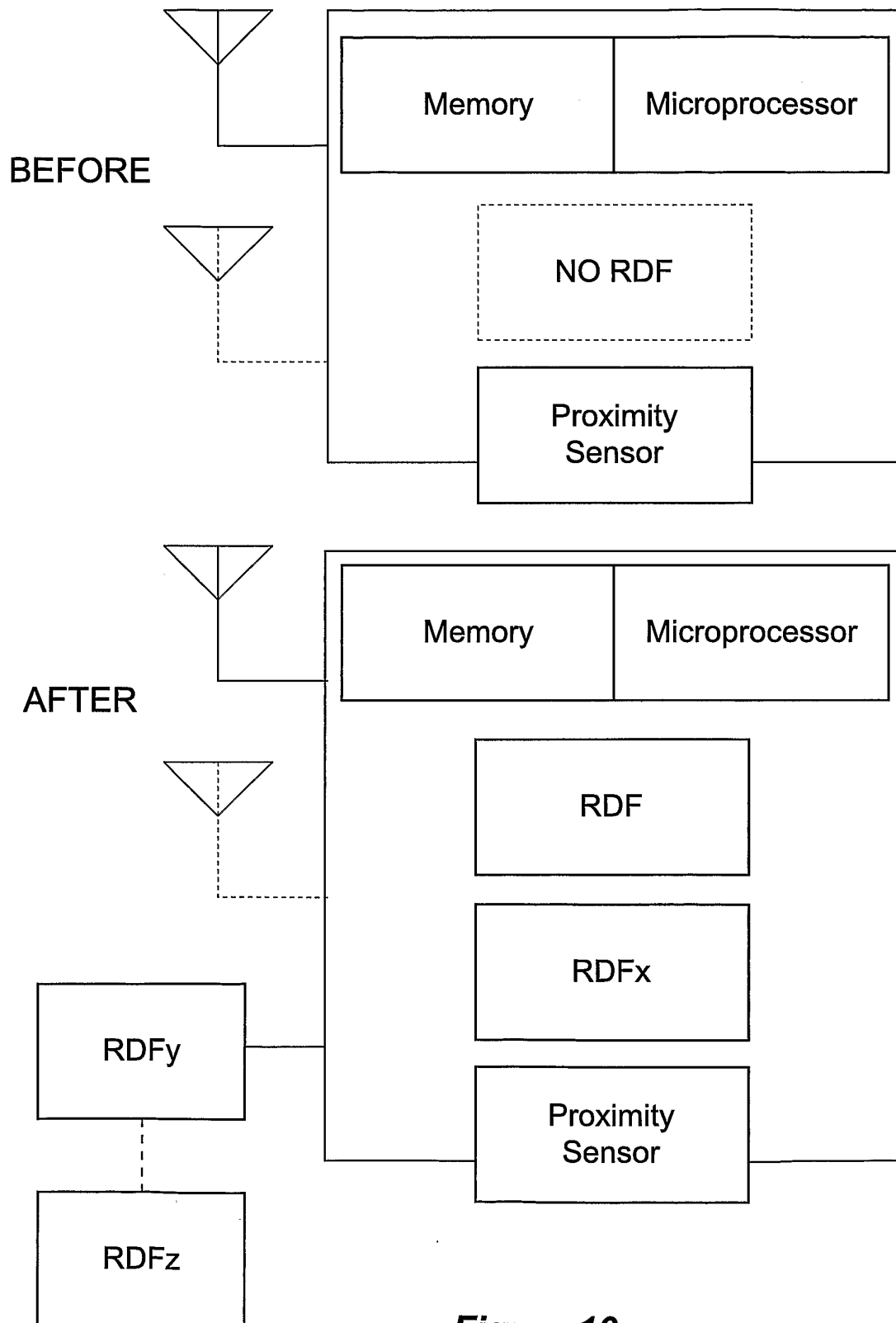
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**Figure 8**

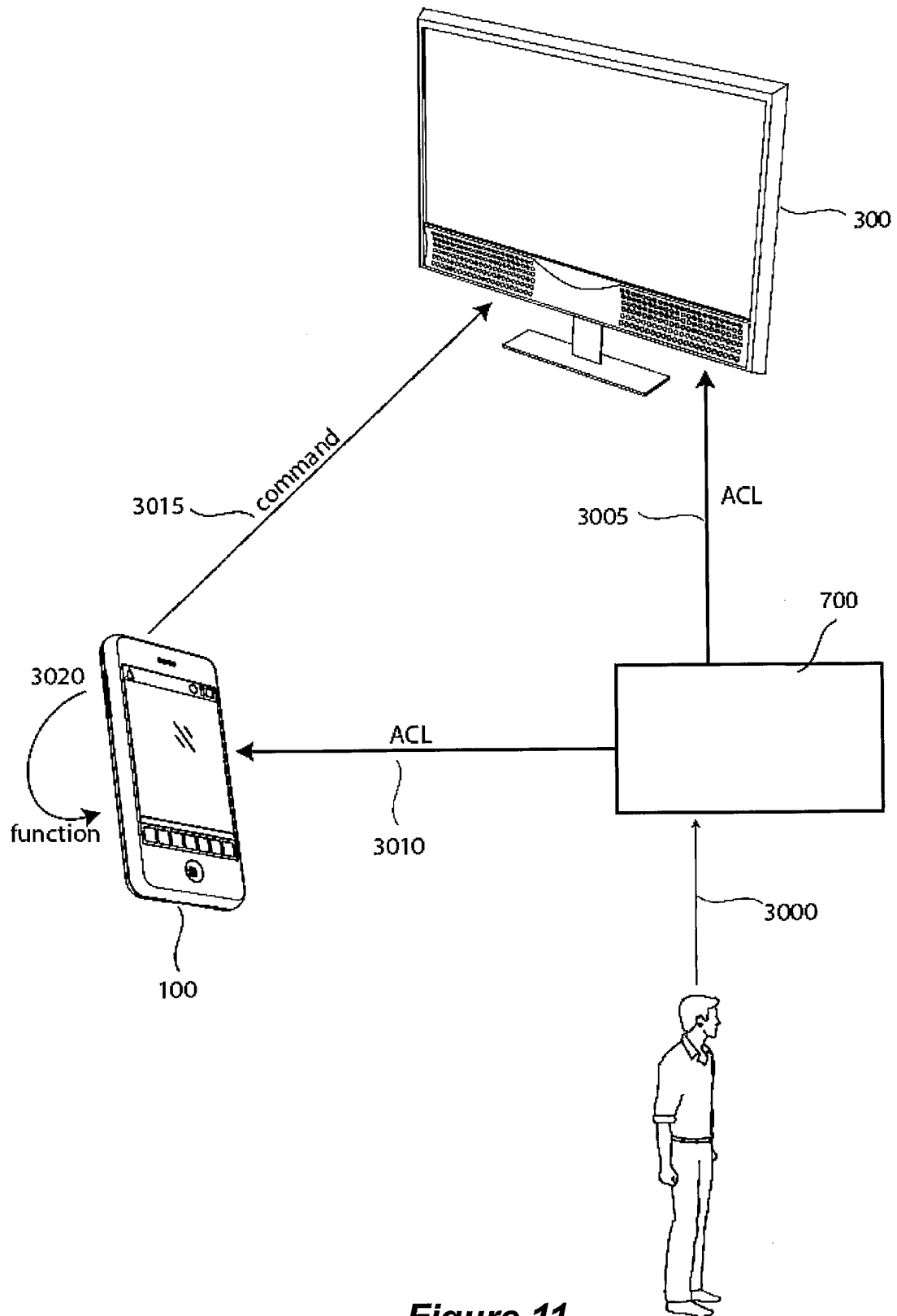
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**Figure 9**

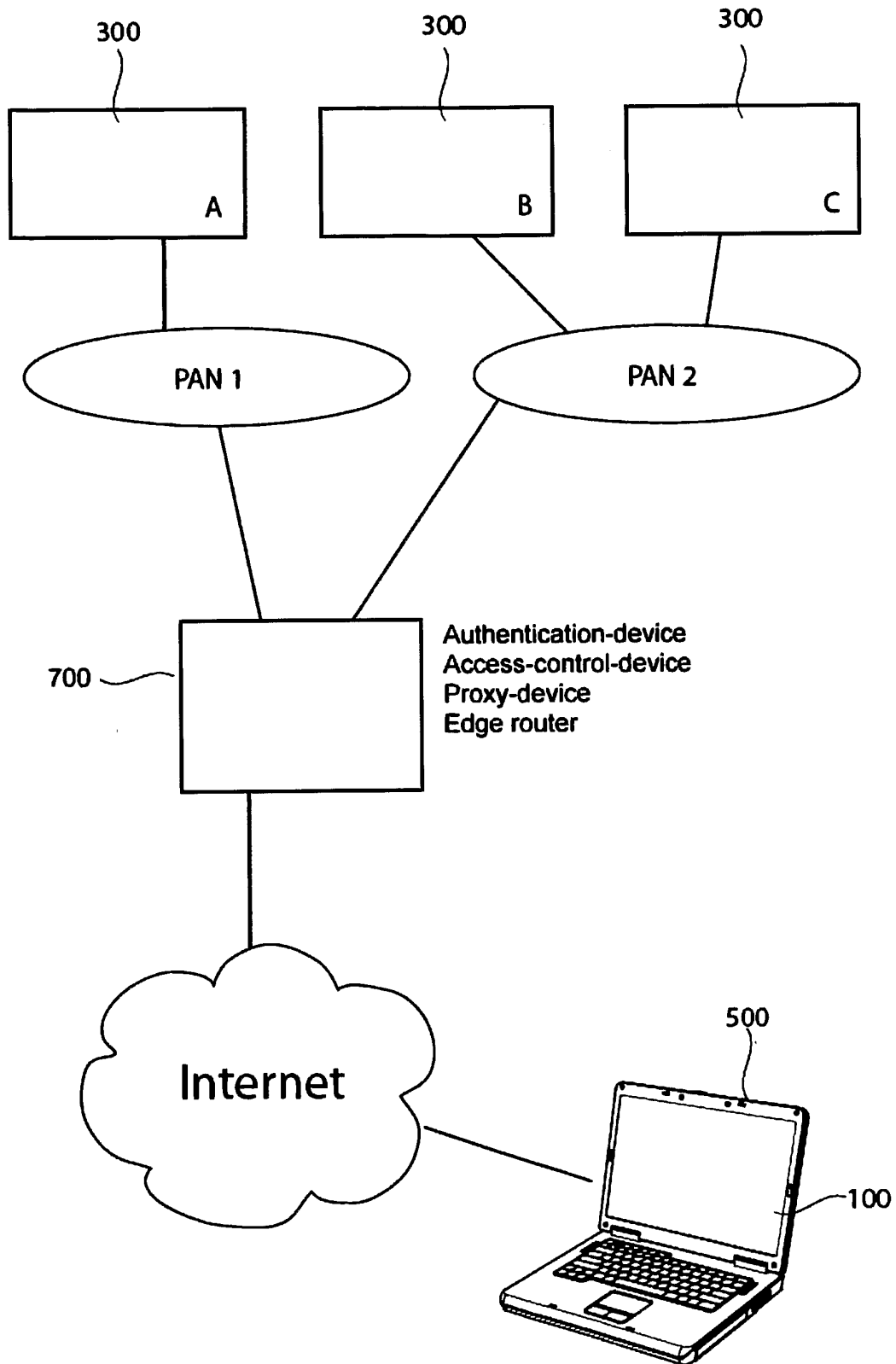
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**Figure 10**

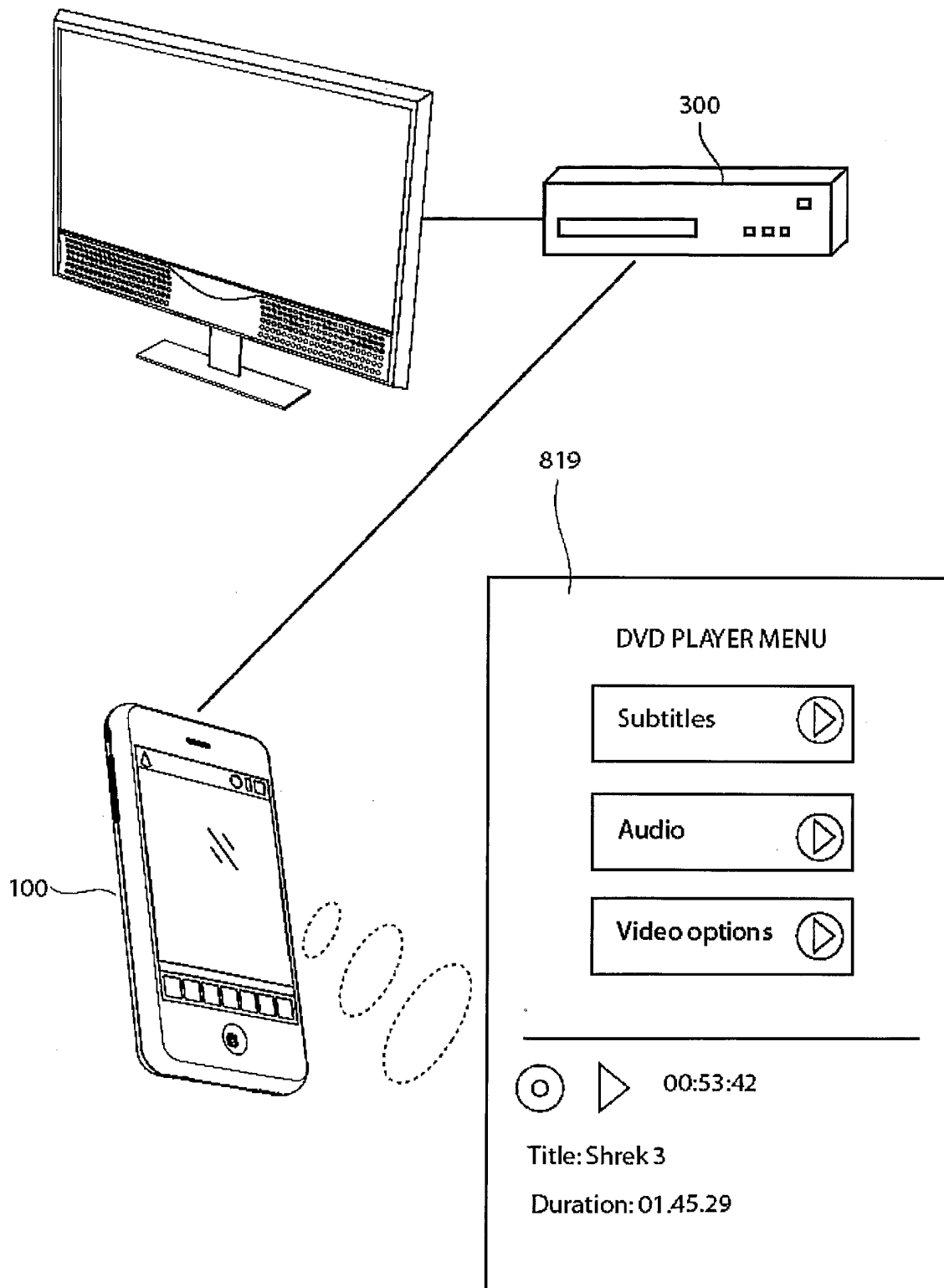
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**Figure 11**

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**Figure 12**

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**Figure 13**

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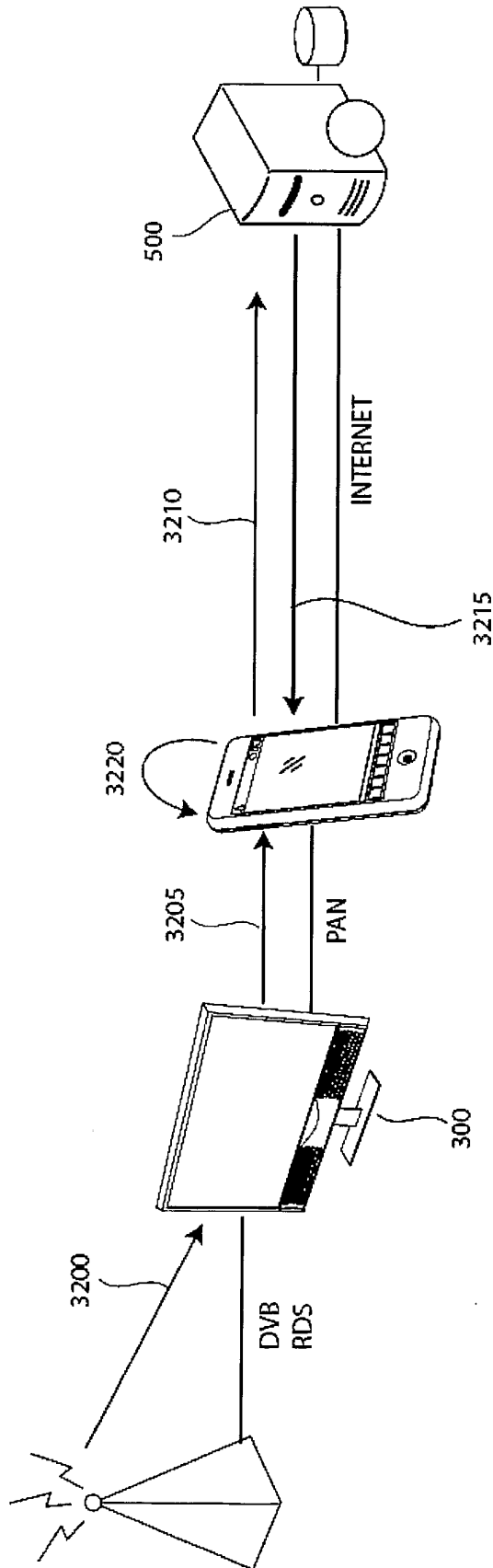


Figure 14

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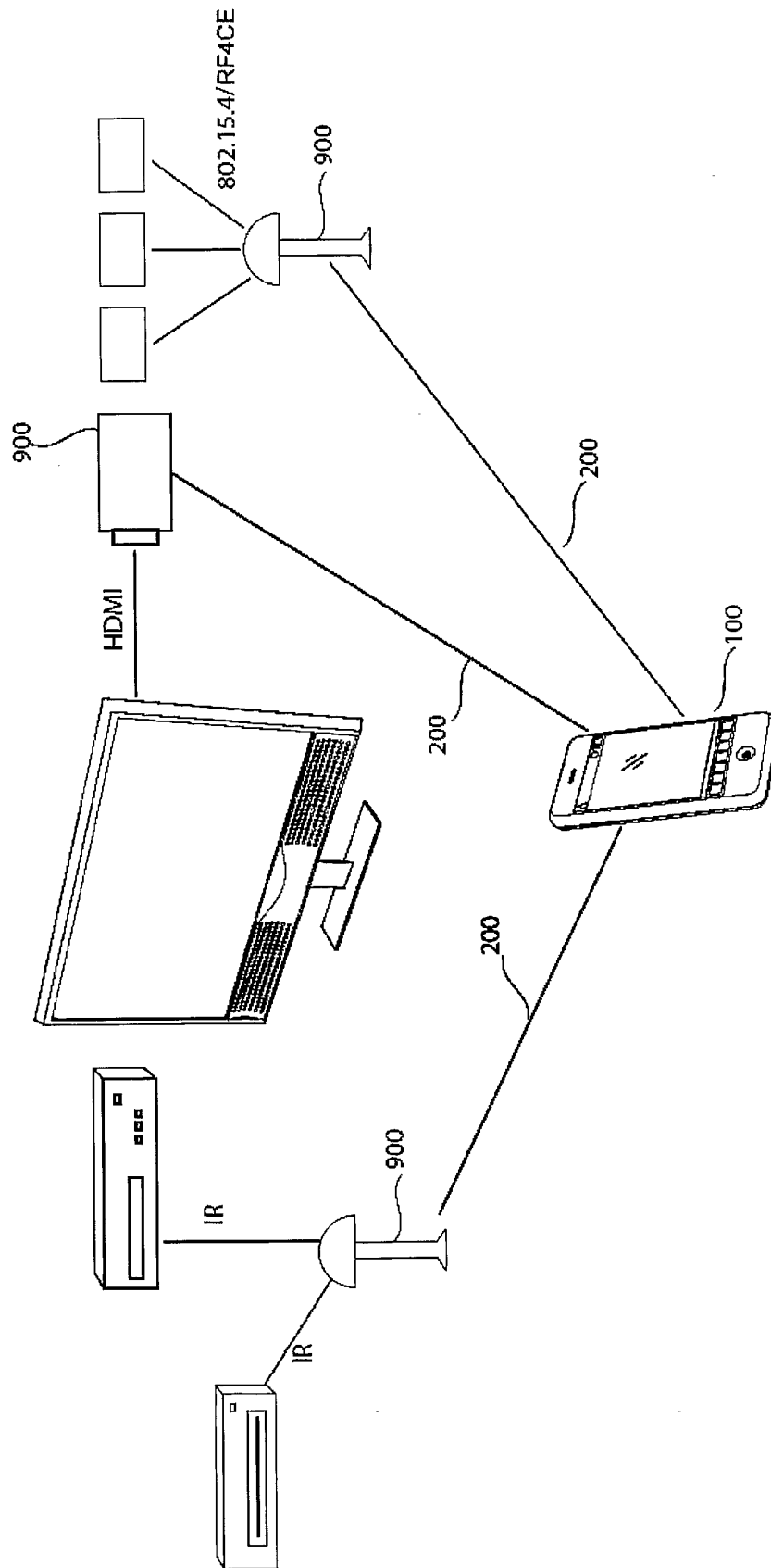
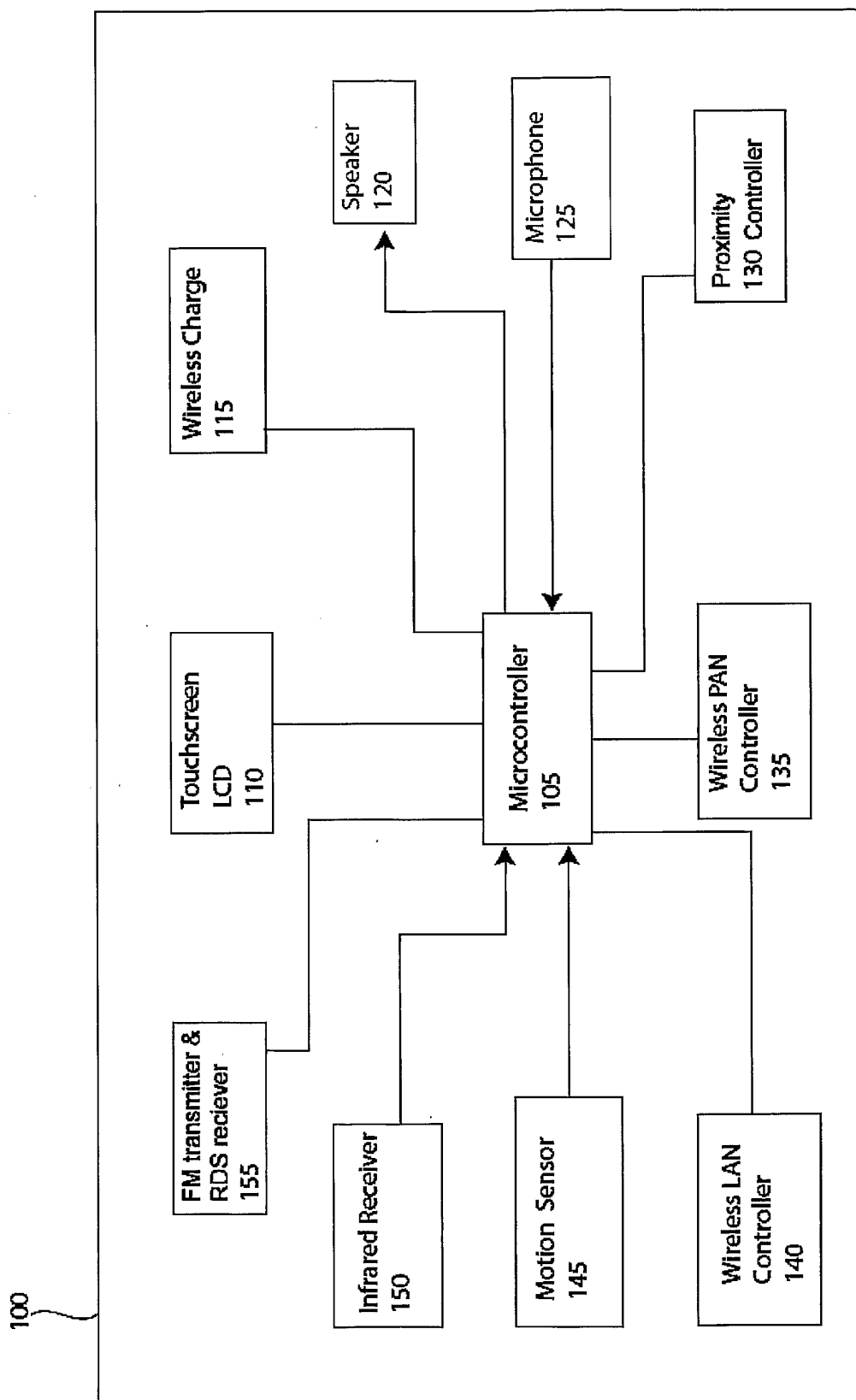


Figure 15

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**Figure 16**

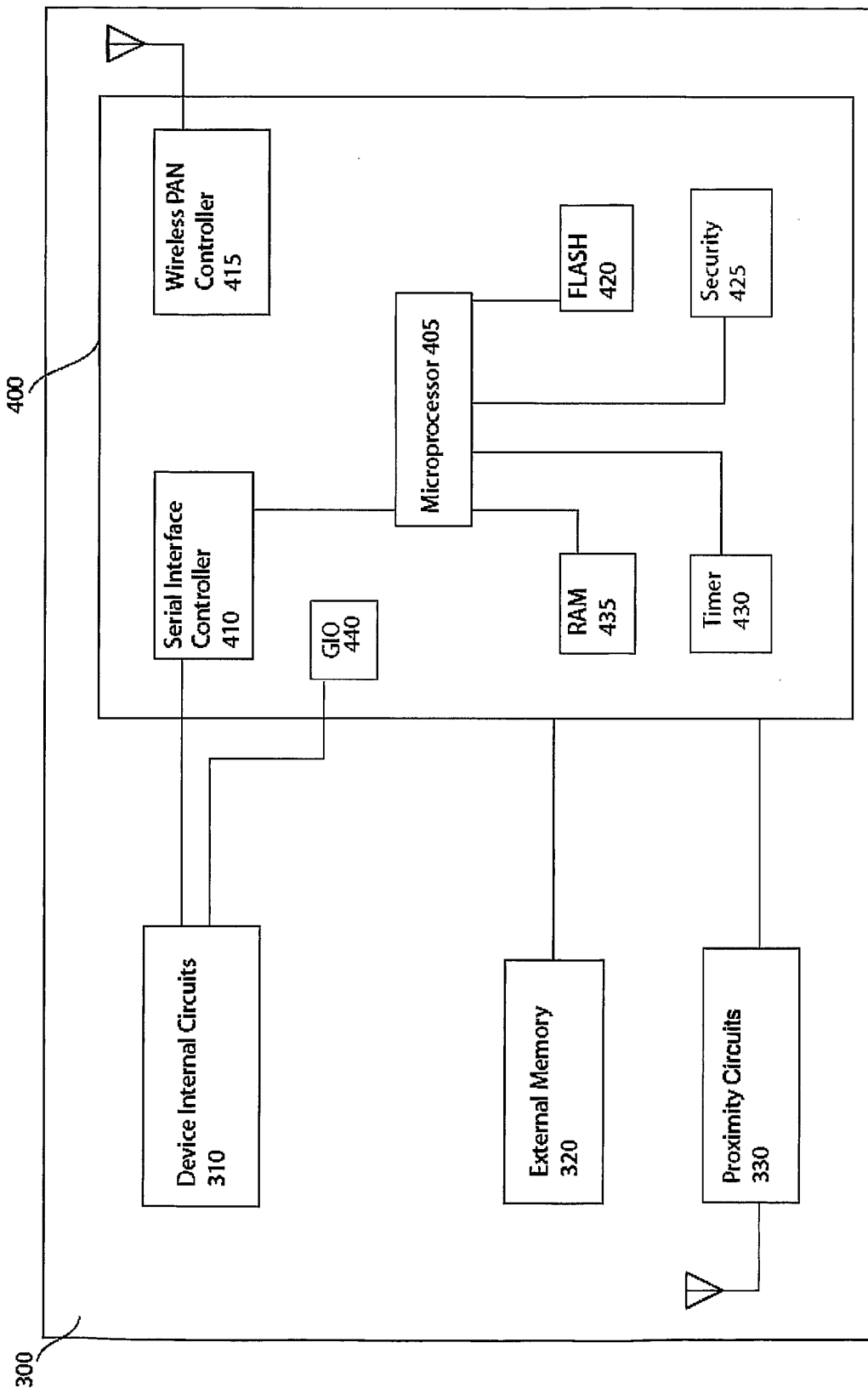


Figure 17

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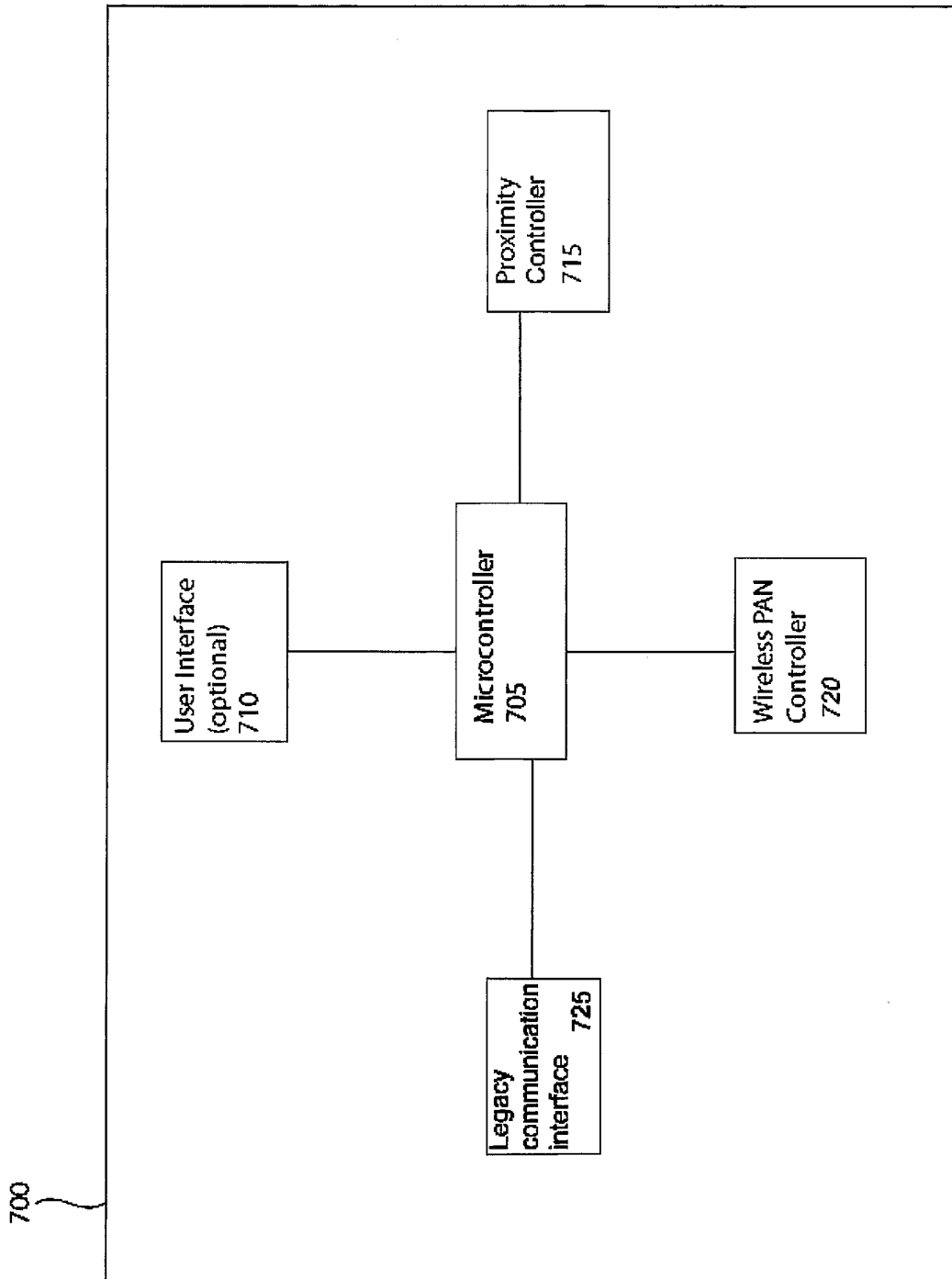


Figure 18

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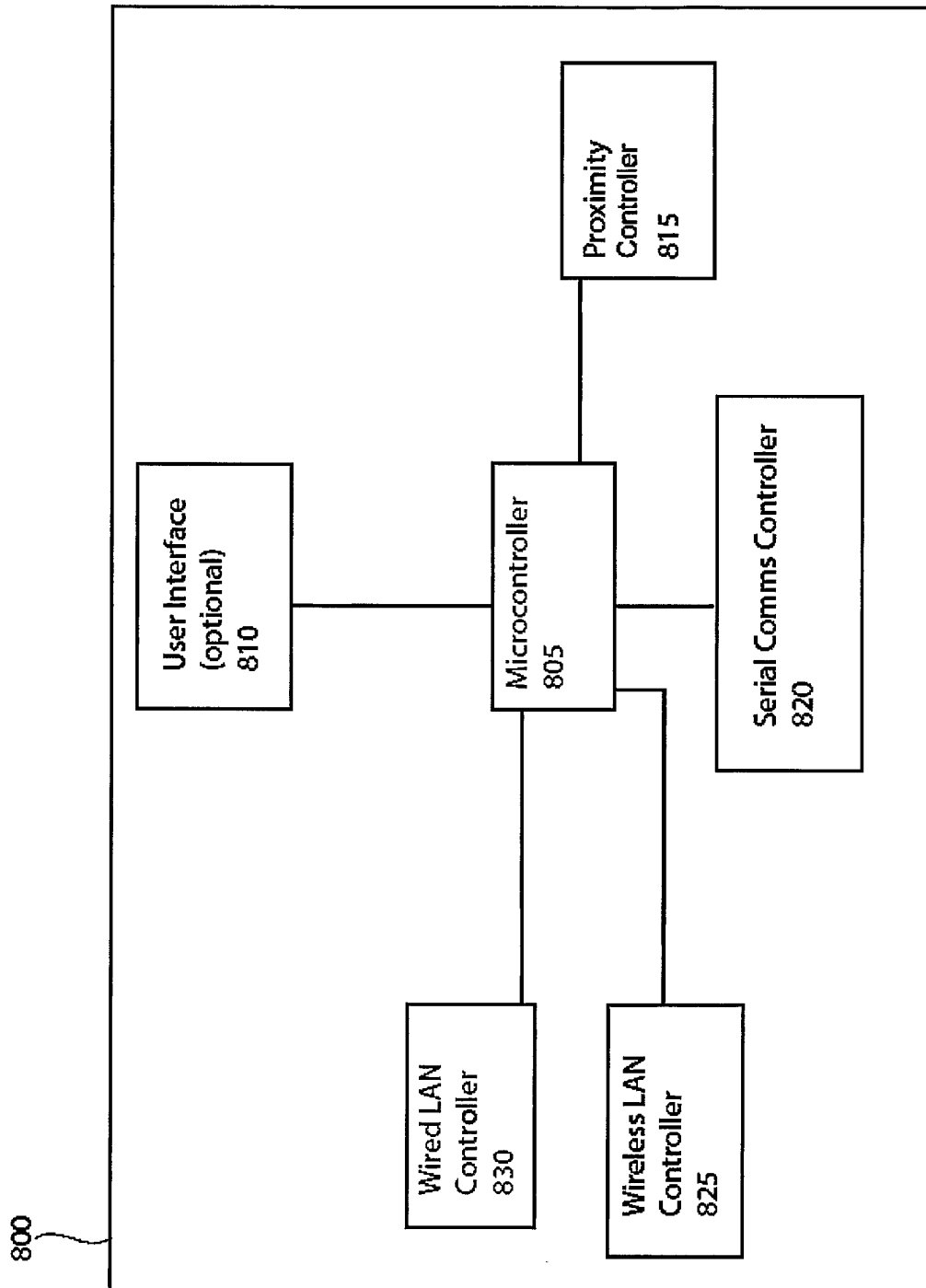
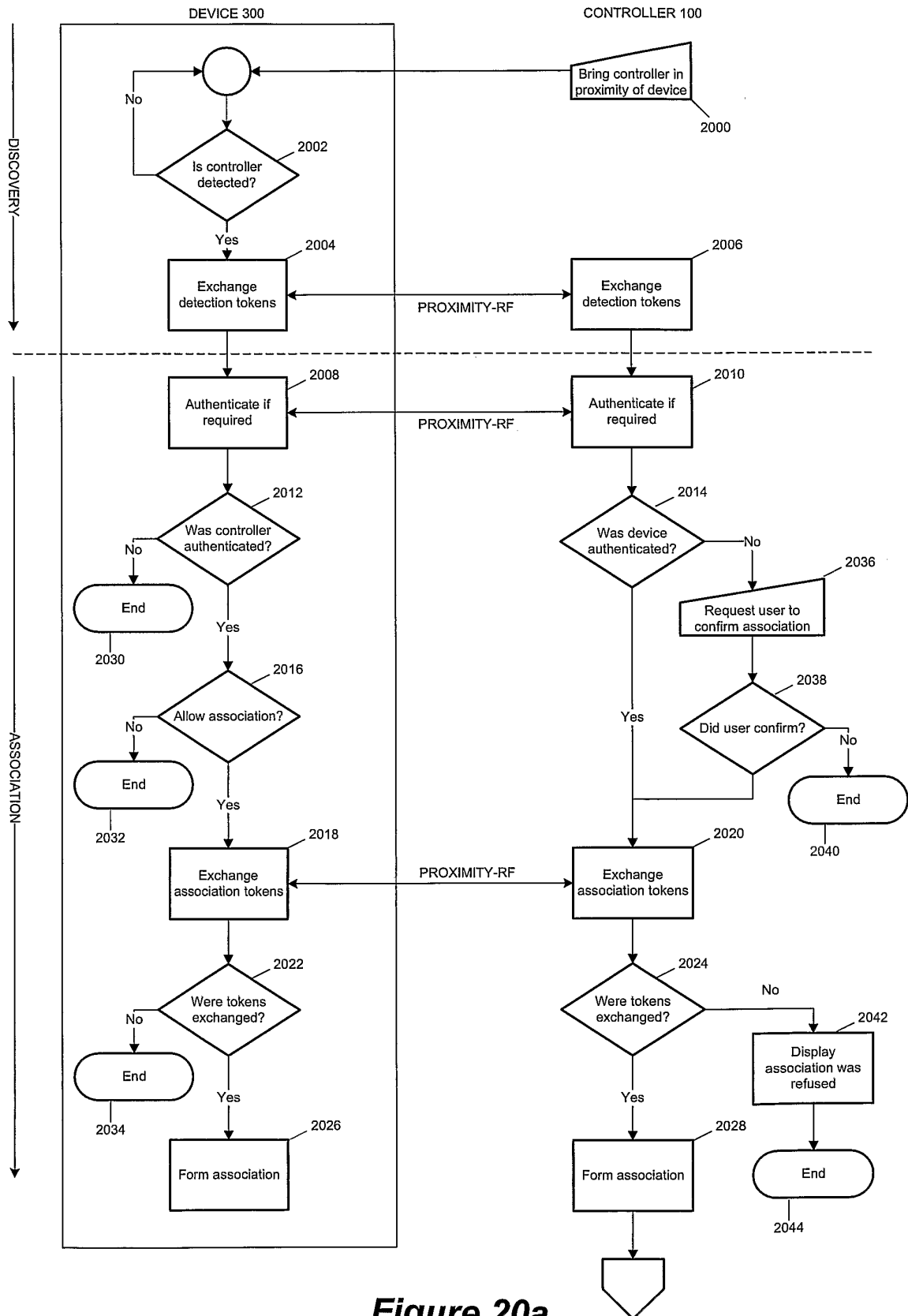
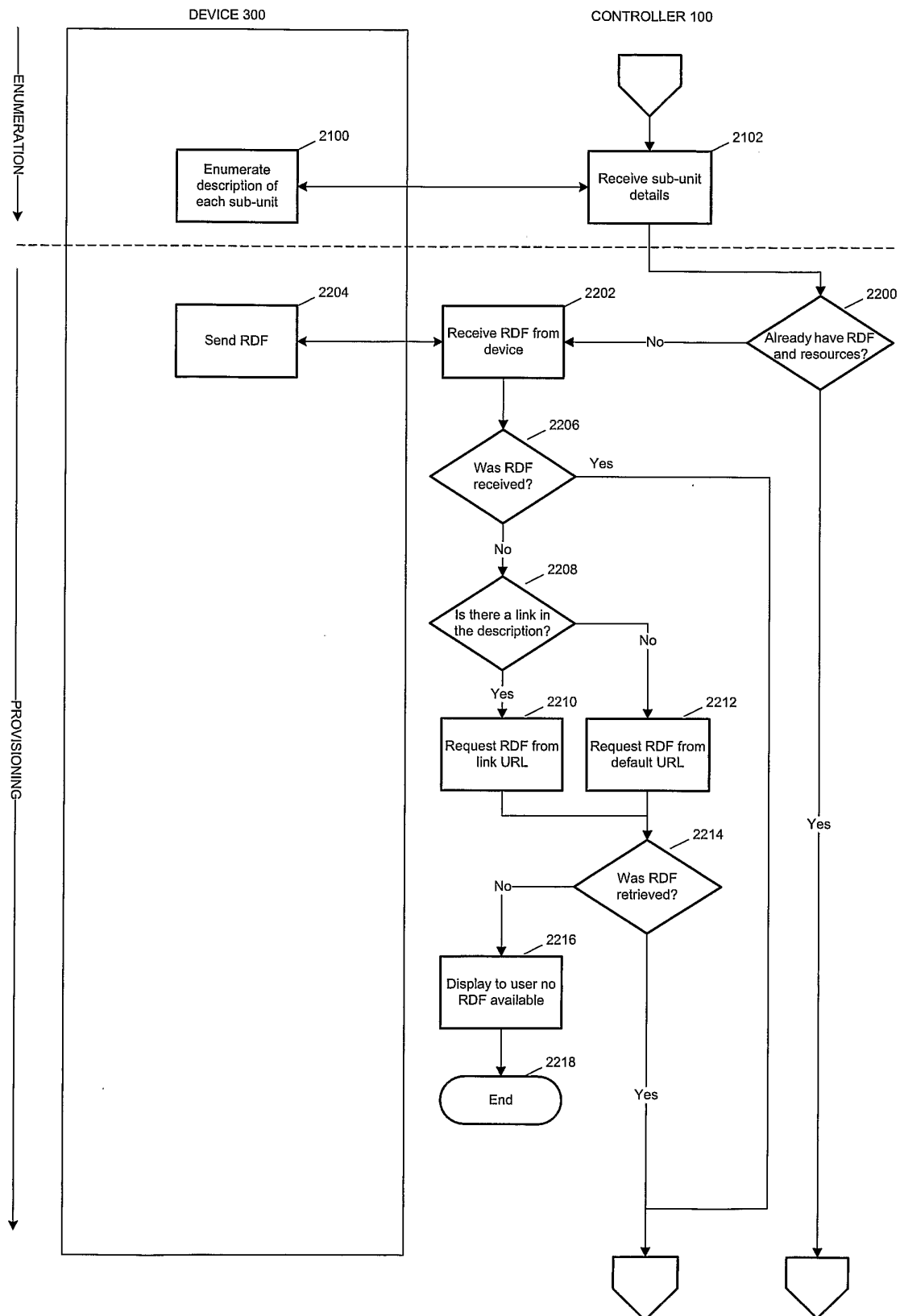


Figure 19

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**Figure 20a**

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**Figure 20b**

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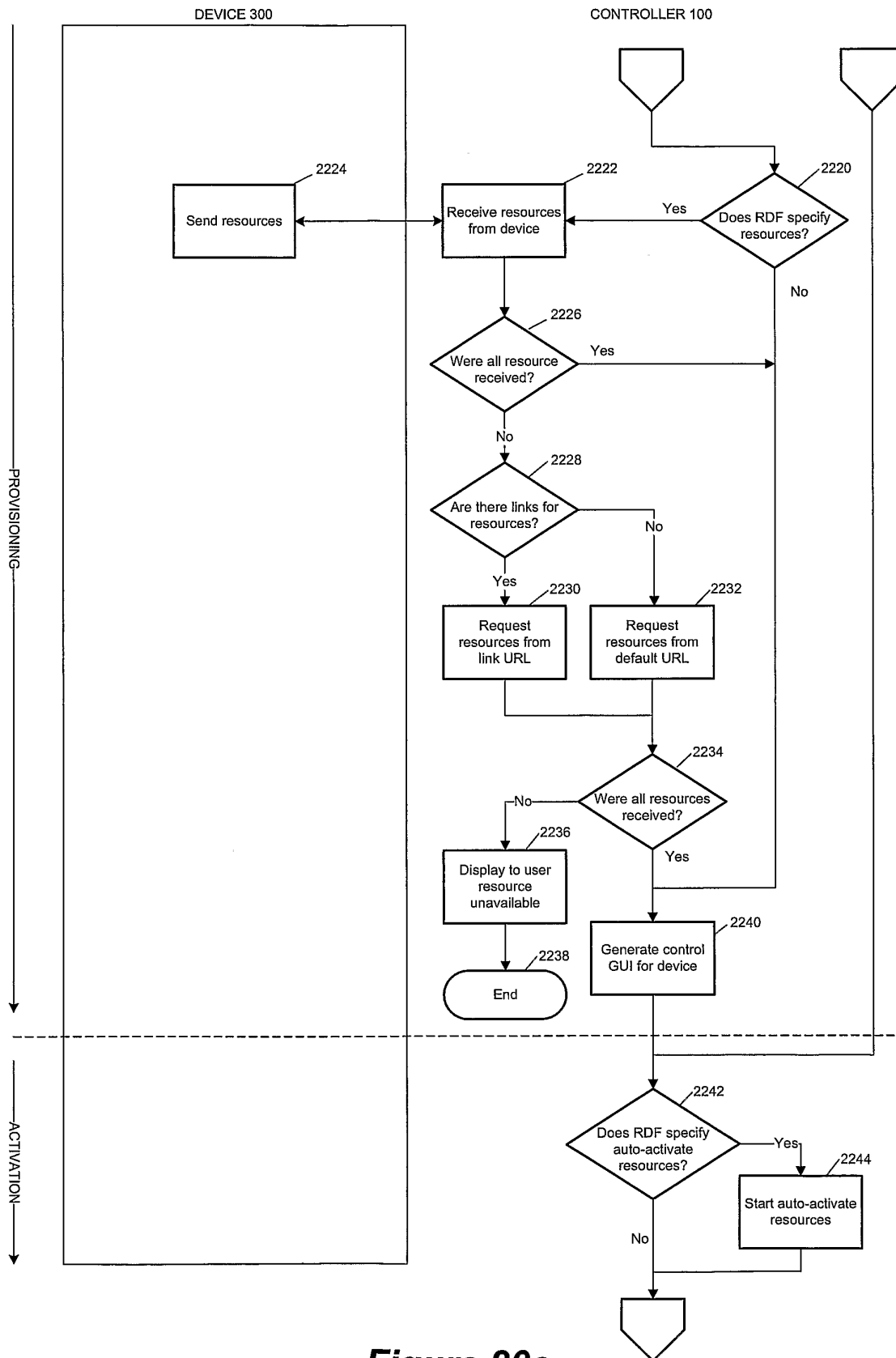
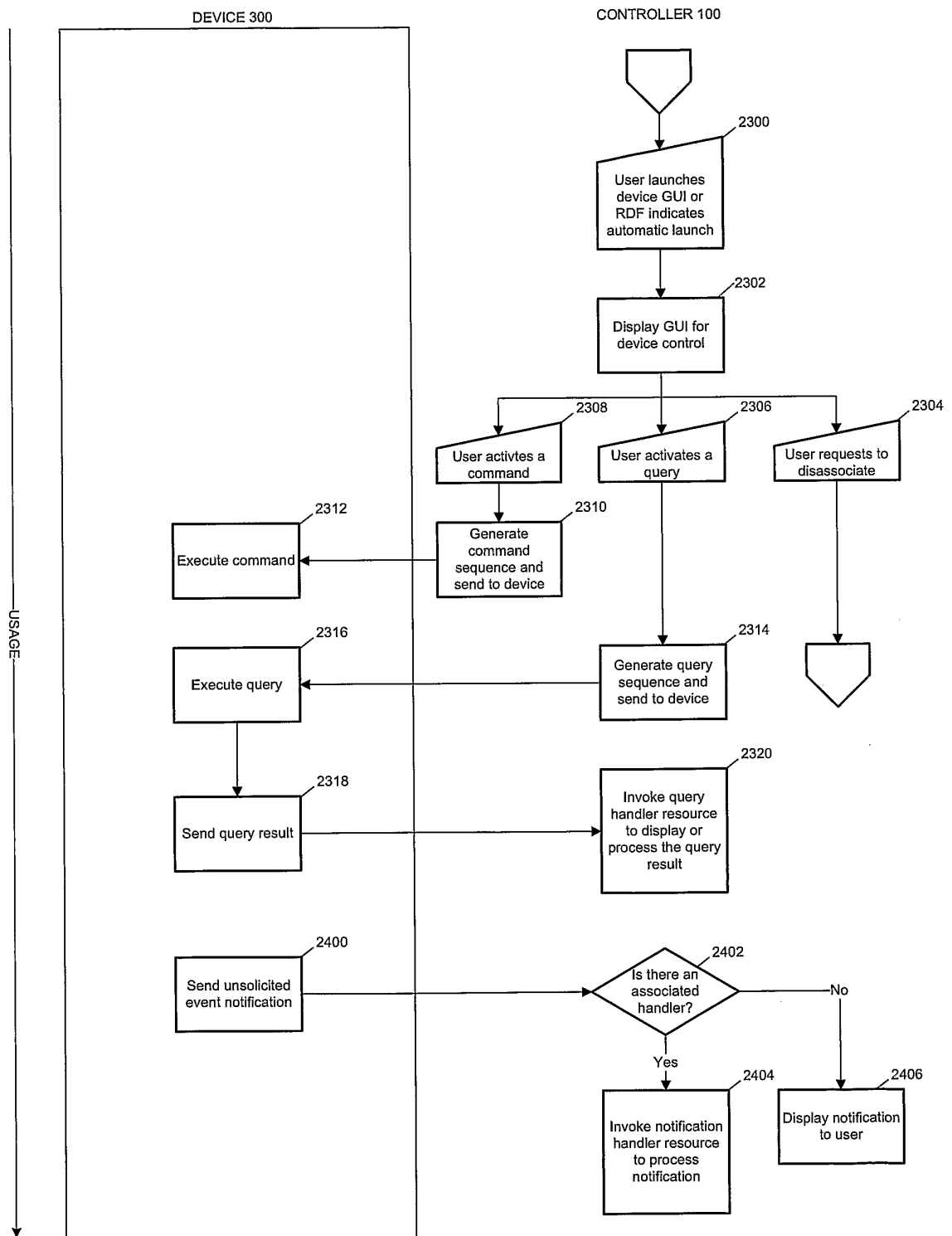
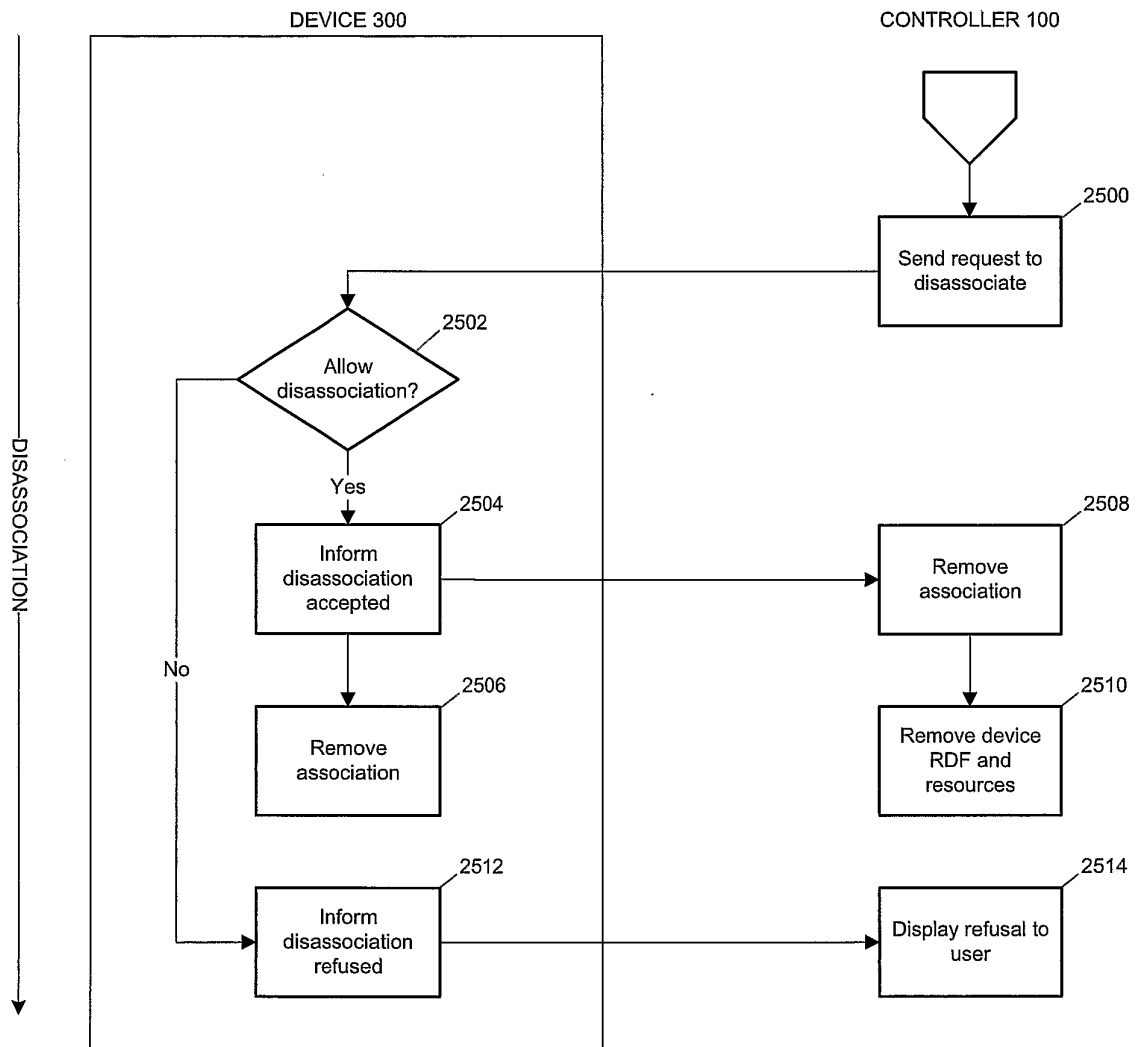


Figure 20c

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**Figure 20d**

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**Figure 20e**

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```

<?xml version="1.0" ?>
<!DOCTYPE rap SYSTEM "rdf.dtd">
<!-- Example RDF for ADRC compliant TV -->

<rdf>
  <device>
    <description>
      <manf>Virtucon</manf>
      <model>ATV1000</model>
      <class>TV</class>
      <version>1.2</version>
    </description>
    <controllable>
      <function id='power'>
        <label>Power</label>
        <cmd>807F</cmd>
        <voice>power on</voice>
      </function>
      <function id='volume'>
        <label>Volume</label>
        <cmd>58A7 $value$</cmd>
        <value>
          <range>
            <min>0</min>
            <max>100</max>
            <step>2</step>
          </range>
        </value>
        <voice>volume $range</voice>
      </function>
      <function id='inputs'>
        <label>Inputs</label>
        <cmd>FE7D $value$</cmd>
        <value>
          <list>
            <item>
              <label>HDMI1</label>
              <tag>hdm11</tag>
            </item>
            <item>
              <label>AV1</label>
              <tag>av1</tag>
            </item>
          </list>
        </value>
      </function>
      <group id='numeric-keys'>
        <!-- controls for 0..9, *, # -->
      </group>
      <voice>
        <attention>teevee</attention>
        <response>television command</response>
      </voice>
    </controllable>
  </device>
</rdf>

```

1000

1010

1011

1012

1013

Figure 21a

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```

<automation>
  <resource type='text/javascript'>
    <implements>xert</implements>
    <script>
      function trigger(url)
      {
        var p=window.getFrame("upper");
        p.location = url;
        p.visible(true);
      }
    </script>
  </resource>

  <resource type='application/octet -stream'>
    <implements>epg</implements>
    <options>autoload, autostop</options>
    <platform name='SR1 '>
      <link ver='1.0' h ref='ftp://virtucon.com/apps/sr1 -epg-1.0/'>
    </platform>
  </resource>

  <interface id='xert'>
    <event id='trigger'>
      <document>
        <member>
          <name>address</name> <type>url</type>
        </member>
      </document>
    </event>
  </interface>

  <interface id='epg'>
    <document id='guide'>
      <array><struct>
        <member>
          <name>program-name</name> <type>string</type>
        </member>
        <member>
          <name>start-date</name> <type>dateTime.iso8601</type>
        </member>
      </struct></array>
    </document>

    <event id='changed' document='guide' />

    <method id='subscribe' >
      <call>
        <param><name>event</name><type>string</type></param>
      </call>
    </method>

    <method id='get-guide'>
      <return document='guide' />
    </method>
  </interface>
</automation>

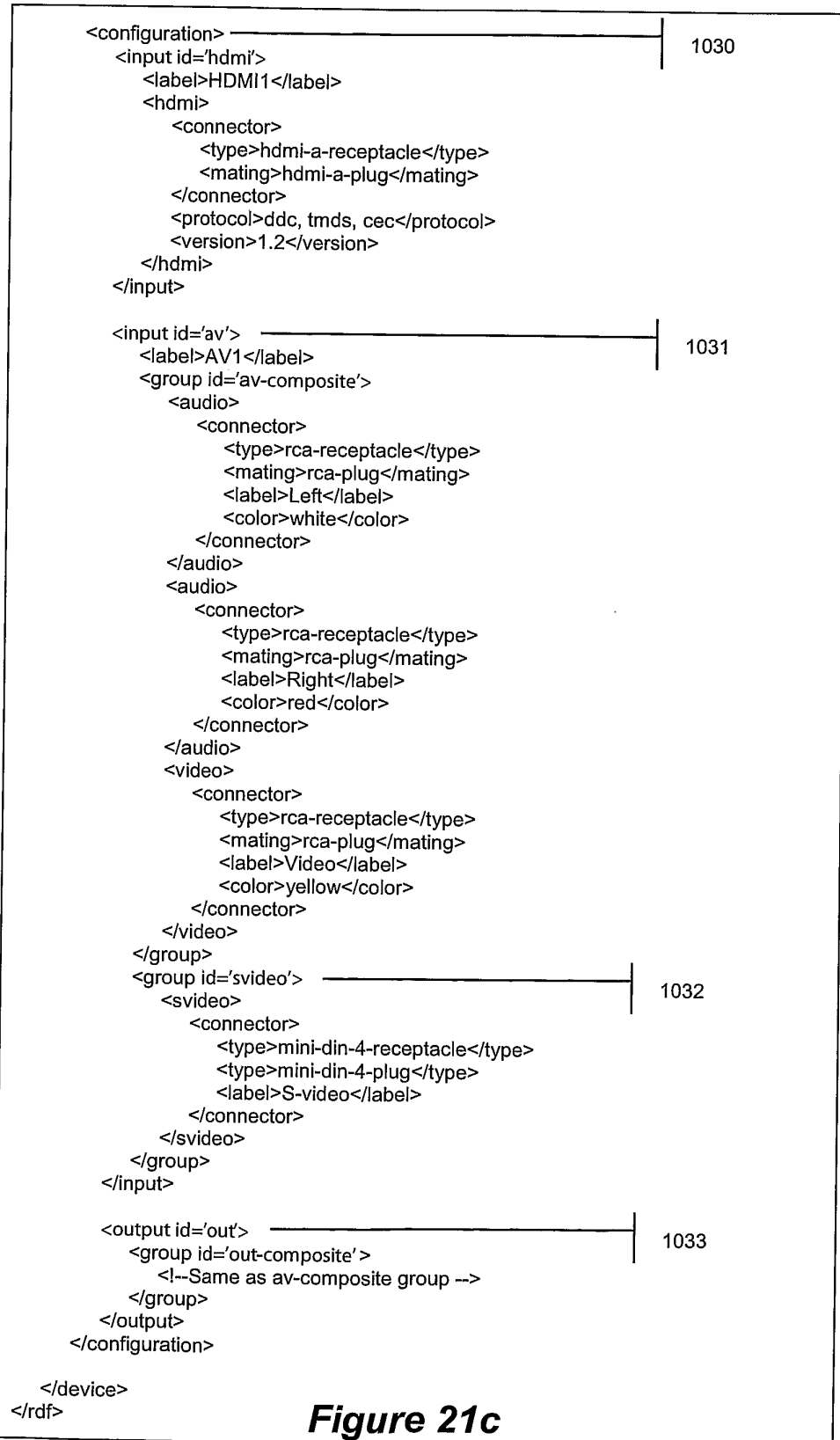
```

Figure 21b is an XML Schema Diagram illustrating the structure of an automation document. The diagram shows the following elements and their corresponding line numbers:

- Line 1020: `<automation>`
- Line 1021: `<resource type='text/javascript'>`
- Line 1022: `<implements>xert</implements>`
- Line 1023: `<script>`
- Line 1024: `function trigger(url)`
- Line 1025: `{`
- Line 1026: `var p=window.getFrame("upper");`
- Line 1027: `p.location = url;`
- Line 1028: `p.visible(true);`
- Line 1029: `}`
- Line 1030: `</script>`
- Line 1031: `</resource>`
- Line 1032: `<resource type='application/octet -stream'>`
- Line 1033: `<implements>epg</implements>`
- Line 1034: `<options>autoload, autostop</options>`
- Line 1035: `<platform name='SR1 '>`
- Line 1036: `<link ver='1.0' h ref='ftp://virtucon.com/apps/sr1 -epg-1.0/'>`
- Line 1037: `</platform>`
- Line 1038: `</resource>`
- Line 1039: `<interface id='xert'>`
- Line 1040: `<event id='trigger'>`
- Line 1041: `<document>`
- Line 1042: `<member>`
- Line 1043: `<name>address</name> <type>url</type>`
- Line 1044: `</member>`
- Line 1045: `</document>`
- Line 1046: `</event>`
- Line 1047: `</interface>`
- Line 1048: `<interface id='epg'>`
- Line 1049: `<document id='guide'>`
- Line 1050: `<array><struct>`
- Line 1051: `<member>`
- Line 1052: `<name>program-name</name> <type>string</type>`
- Line 1053: `</member>`
- Line 1054: `<member>`
- Line 1055: `<name>start-date</name> <type>dateTime.iso8601</type>`
- Line 1056: `</member>`
- Line 1057: `</struct></array>`
- Line 1058: `</document>`
- Line 1059: `<event id='changed' document='guide' />`
- Line 1060: `<method id='subscribe' >`
- Line 1061: `<call>`
- Line 1062: `<param><name>event</name><type>string</type></param>`
- Line 1063: `</call>`
- Line 1064: `</method>`
- Line 1065: `<method id='get-guide'>`
- Line 1066: `<return document='guide' />`
- Line 1067: `</method>`
- Line 1068: `</interface>`
- Line 1069: `</automation>`

Figure 21b

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**Figure 21c**