

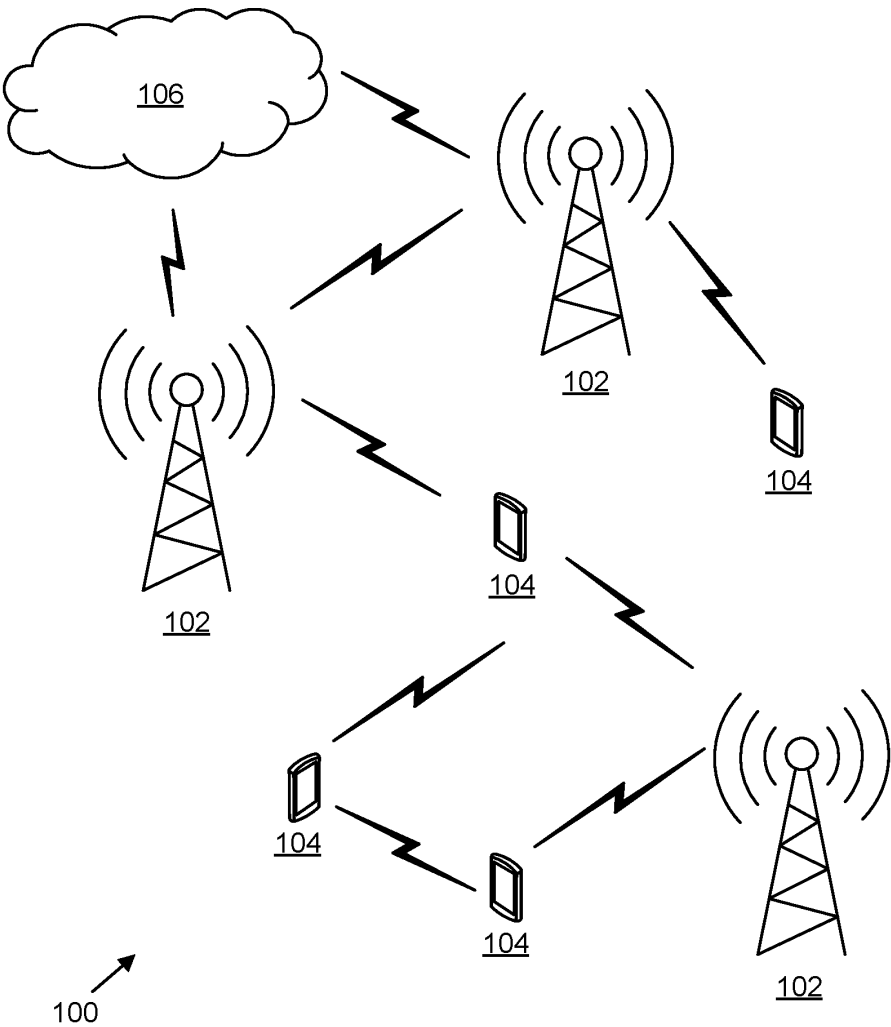


FIG. 1

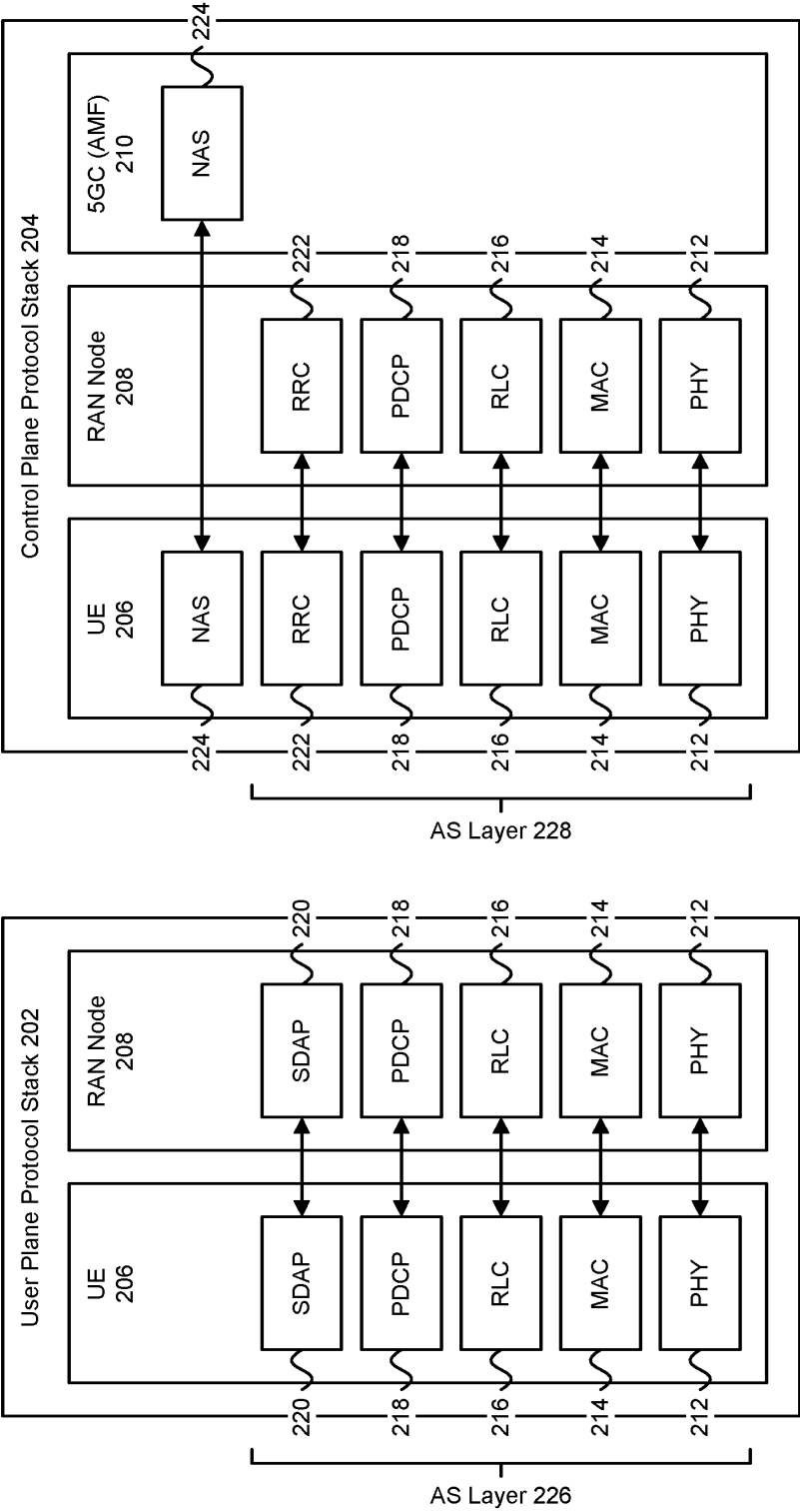


FIG. 2

```

SCellConfig ::=
    sCellIndex
    sCellConfigCommon
    sCellConfigDedicated
    ...,
    [{
        smtc
    }],
    [{
        sCellState-r16
        secondaryDRX-GroupConfig-r16
    }],
    [{
        preConfigGapStatus-r17
        goodServingCellEvaluationBFD-r17
        sCellsSIB20-r17
    }],
    [{
        plmn-IdentityInfoList-r17
        npn-IdentityInfoList-r17
    }],
    sCellIndex,
    ServingCellConfigCommon
    ServingCellConfig
    SSB-MTC
    ENUMERATED {activated}
    ENUMERATED {true}
    BIT STRING (SIZE (maxNrofGapId-r17))
    GoodServingCellEvaluation-r17
    SetupRelease { sCellsSIB20-r17 }
    SetupRelease { plmn-IdentityInfoList}
    SetupRelease { npn-IdentityInfoList-r16}
    OPTIONAL,
    OPTIONAL,
    OPTIONAL,
    OPTIONAL
    -- Cond SCellAdd
    -- Cond SCellAddMod
    -- Need S
    -- Cond SCellAddSync
    -- Need S
    -- Cond PreConfigMG
    -- Need R
    -- Need M
    -- Cond SCellsSIB20-Opt
    -- Cond SCellsSIB20-Opt

```

FIG. 3

300

```
-- ASN1START
-- TAG-SERVINGCELLCONFIGCOMMON-START

ServingCellConfigCommon ::=
    physCellId
    downlinkConfigCommon
    uplinkConfigCommon
    supplementaryUplinkConfig
    n-TimingAdvanceOffset
    ssb-PositionsInBurst
        shortBitmap
        mediumBitmap
        longBitmap
    }
    ssb-periodicityServingCell
    dmrs-TypeA-Position
    lte-CRS-ToMatchAround
    rateMatchPatternToAddModList
    rateMatchPatternToReleaseList
    ssbSubcarrierSpacing
    tdd-UL-DL-ConfigurationCommon
    ss-PBCH-BlockPower
    ...,
    {}
    channelAccessMode-r16
        Dynamic
        semiStatic
    }
    discoveryBurstWindowLength-r16
    ssb-PositionQCL-r16
    highSpeedConfig-r16
    },
    ...

SEQUENCE {
    PhysCellId
    DownlinkConfigCommon
    UplinkConfigCommon
    UplinkConfigCommon
    ENUMERATED { n0, n25600, n39936 }
    CHOICE {
        BIT STRING (SIZE (4)),
        BIT STRING (SIZE (8)),
        BIT STRING (SIZE (64))
    }
    ENUMERATED { ms5, ms10, ms20, ms40, ms80, ms160, spare2, spare1 }
    ENUMERATED { pos2, pos3 },
    SetupRelease { RateMatchPatternLTE-CRS }
    SEQUENCE (SIZE (1..maxNrofRateMatchPatterns)) OF RateMatchPattern
    SEQUENCE (SIZE (1..maxNrofRateMatchPatterns)) OF RateMatchPatternId
    SubcarrierSpacing
    TDD-UL-DL-ConfigCommon
    INTEGER (-60..50),
    CHOICE {
        NULL,
        SemiStaticChannelAccessConfig-r16
    }
    ENUMERATED { ms0dot5, ms1, ms2, ms3, ms4, ms5 }
    SSB-PositionQCL-Relation-r16
    HighSpeedConfig-r16
}

OPTIONAL, -- Cond HOAndServCellAdd
OPTIONAL, -- Cond HOAndServCellAdd
OPTIONAL, -- Need M
OPTIONAL, -- Need S
OPTIONAL, -- Need S
OPTIONAL, -- Cond AbsFreqSSB
OPTIONAL, ms80, ms160, spare2, spare1 }
OPTIONAL, -- Need S
OPTIONAL, -- Need M
OPTIONAL, -- Need N
OPTIONAL, -- Need N
OPTIONAL, -- Need N
OPTIONAL, -- Cond HOAndServCellWithSSB
OPTIONAL, -- Cond TDD
OPTIONAL, -- Cond SharedSpectrum
OPTIONAL, ms4, ms5 }
OPTIONAL, -- Need R
OPTIONAL, -- Cond SharedSpectrum
OPTIONAL -- Need R
```

FIG. 4A

400

```
...
[[
  highSpeedConfig-v1700
  channelAccessMode2-r17
  discoveryBurstWindowLength-r17

  ssb-PositionQCL-r17
  highSpeedConfigFR2-r17
  uplinkConfigCommon-v1700
  ntn-Config-r17
]],
[[
  featurePriorities-r17
  redCapPriority-r17
  slicingPriority-r17
  msg3-Repetitions-Priority-r17
  sdt-Priority-r17
]
]],
[[
  ra-ChannelAccess-r17
]
]],
[[
  featurePriorities-v1800
  msg1-Repetitions-Priority-r18
  eRedCapPriority-r18
}
  atg-Config-r18
]]
}

-- TAG-SERVINGCELLCONFIGCOMMON-STOP
-- ASN1STOP
```

```
HighSpeedConfig-v1700
ENUMERATED {enabled}
ENUMERATED {ms0dot125, ms0dot25, ms0dot5, ms0dot75, ms1, ms1dot25}

SSB-PositionQCL-Relation-r17
HighSpeedConfigFR2-r17
UplinkConfigCommon-v1700
NTN-Config-r17

SEQUENCE {
  FeaturePriority-r17
  FeaturePriority-r17
  FeaturePriority-r17
}

ENUMERATED {enabled}

SEQUENCE {
  FeaturePriority-r17
  FeaturePriority-r17
  ATG-Config-r18
}
```

```
OPTIONAL, -- Need R
OPTIONAL, -- Cond SharedSpectrum2
OPTIONAL, -- Need R
OPTIONAL, -- Cond SharedSpectrum2
OPTIONAL, -- Need R
OPTIONAL, -- Need R
OPTIONAL, -- Need R
OPTIONAL, -- Need R

OPTIONAL, -- Need R
OPTIONAL, -- Need R
OPTIONAL, -- Need R
OPTIONAL, -- Need R
OPTIONAL, -- Need R

OPTIONAL -- Cond SharedSpectrum2

OPTIONAL, -- Need R
OPTIONAL, -- Need R
OPTIONAL, -- Need R
```

400

FIG. 4B

```
-- ASN1START
-- TAG-DOWNLINKCONFIGCOMMON-START

DownlinkConfigCommon ::= SEQUENCE {
    frequencyInfoDL          FrequencyInfoDL
    initialDownlinkBWP       BWP-DownlinkCommon
    ...,
    [[
        initialDownlinkBWP-RedCap-r17  BWP-DownlinkCommon
    ]]
}

-- TAG-DOWNLINKCONFIGCOMMON-STOP
-- ASN1STOP
```

500

FIG. 5

```
-- ASN1START
-- TAG-FREQUENCYINFODL-START

FrequencyInfoDL ::= SEQUENCE {
    absoluteFrequencySSB      ARFCN-ValueNR
    frequencyBandList         MultiFrequencyBandListNR,
    absoluteFrequencyPointA    ARFCN-ValueNR,
    scs-SpecificCarrierList   SEQUENCE (SIZE (1..maxSCSs)) OF SCS-SpecificCarrier,
    ...,
    [[
        referenceCell-r18      ServCellIndex
    ]]
}

-- TAG-FREQUENCYINFODL-STOP
-- ASN1STOP
```

600

FIG. 6

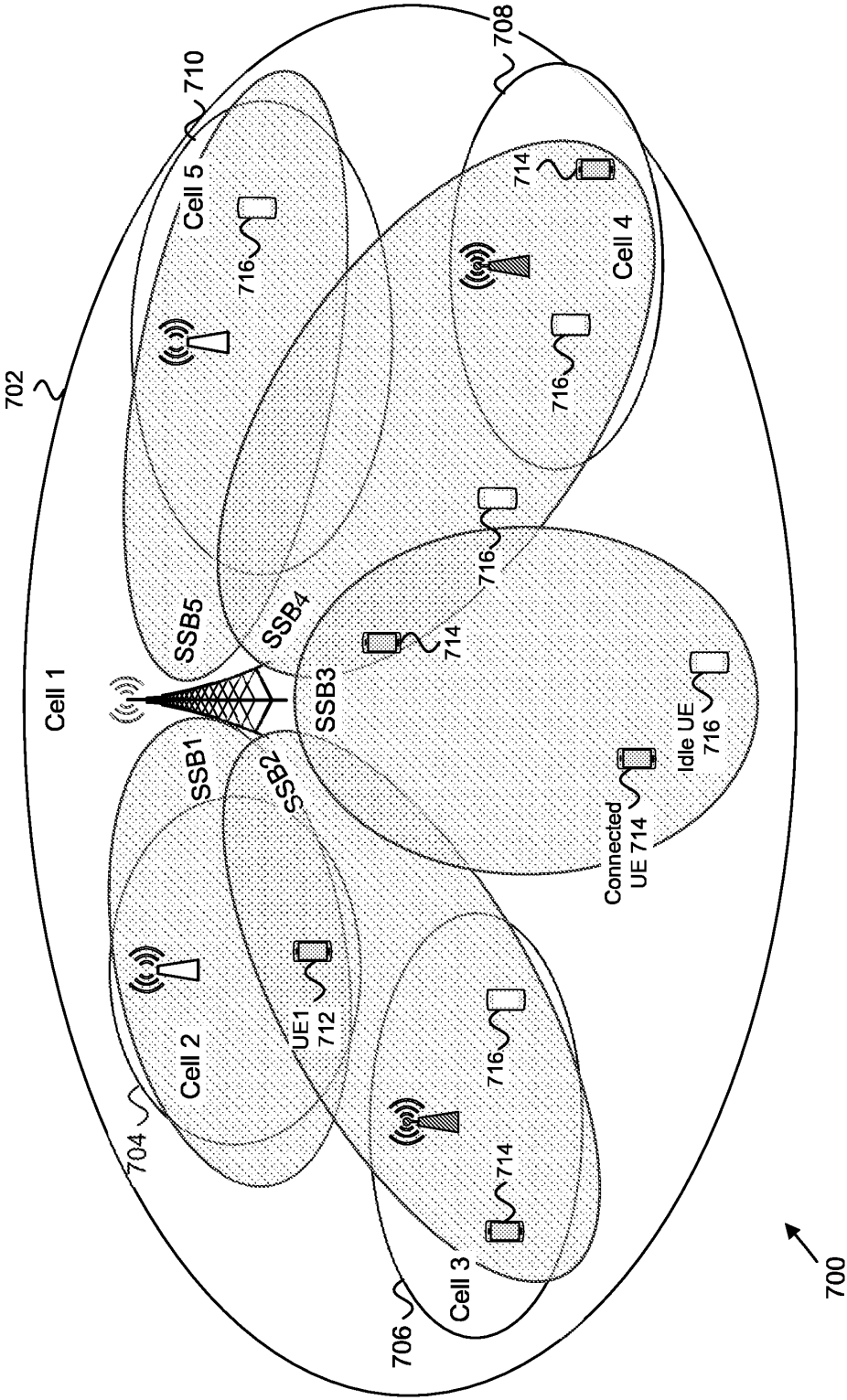


FIG. 7

```
-- ASN1START
-- TAG-SCellConfigUPDATE-START

sCellConfigUpdate ::=
  sCellIndex
    SEQUENCE {
      sCellIndex
        CHOICE {
          ssb-PositionsInBurst
            shortBitmap
              BIT STRING (SIZE (4)),
            mediumBitmap
              BIT STRING (SIZE (8)),
            longBitmap
              BIT STRING (SIZE (64))
        }
      ssb-periodicityServingCell
        ENUMERATED { ms5, ms10, ms20, ms40, ms80, ms160, spare1 }
        OPTIONAL, -- Need M
      ssbSubcarrierSpacing
        SubcarrierSpacing
        INTEGER (-60..50),
      ss-PBCH-BlockPower
        TDD-UL-DL-ConfigurationCommon
        ARFCN-ValueNR
        absoluteFrequencySSB
        updatedInitialDownlinkBWP
        updatedInitialUplinkBWP
        LocationAndBandwidth,
        LocationAndBandwidth,
        LocationAndBandwidth
      }
      LocationAndBandwidth ::=
        INTEGER (0..37949)
    }
-- TAG-SCellConfigUPDATE-STOP
-- ASN1STOP
```

800

FIG. 8

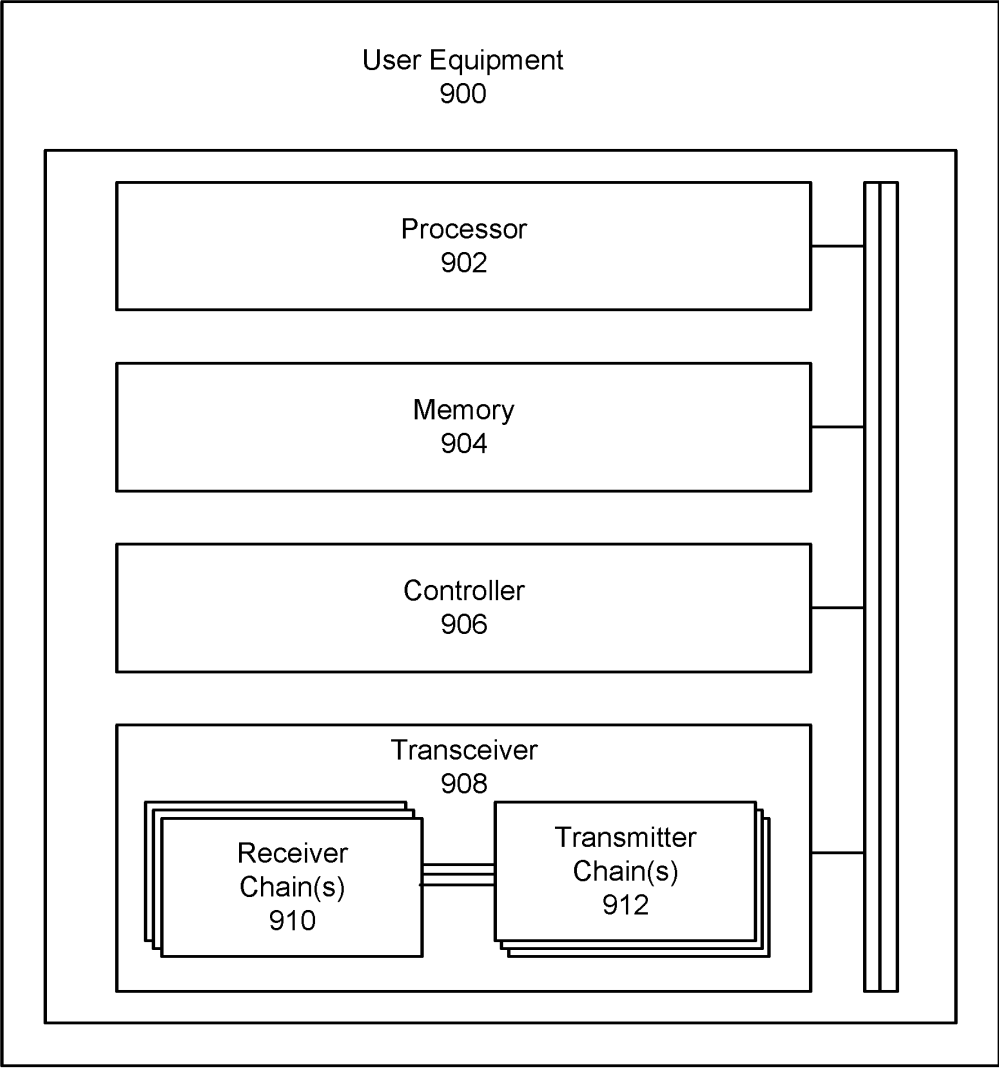


FIG. 9

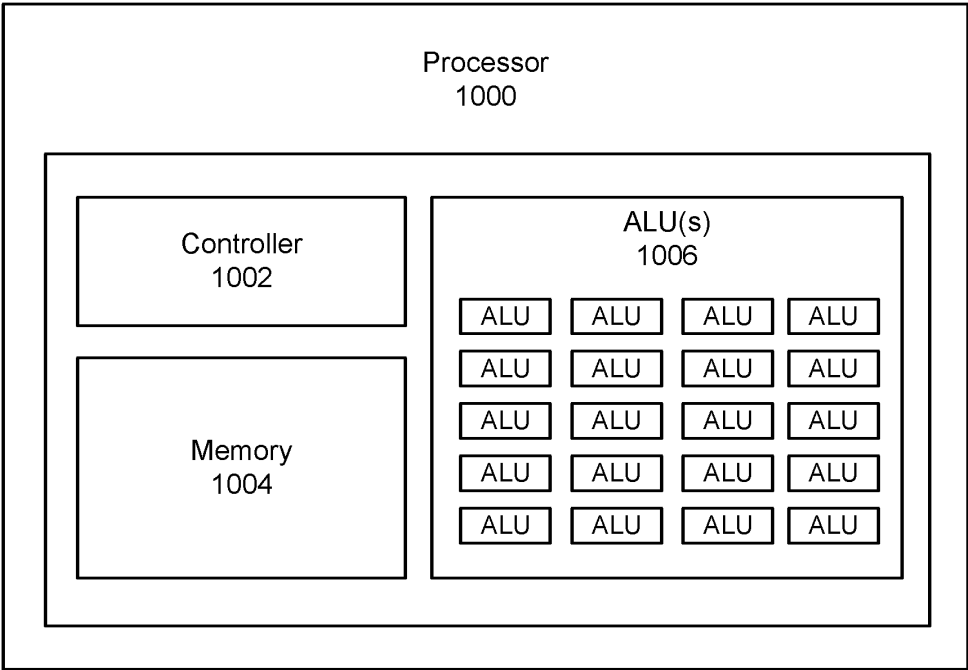


FIG. 10

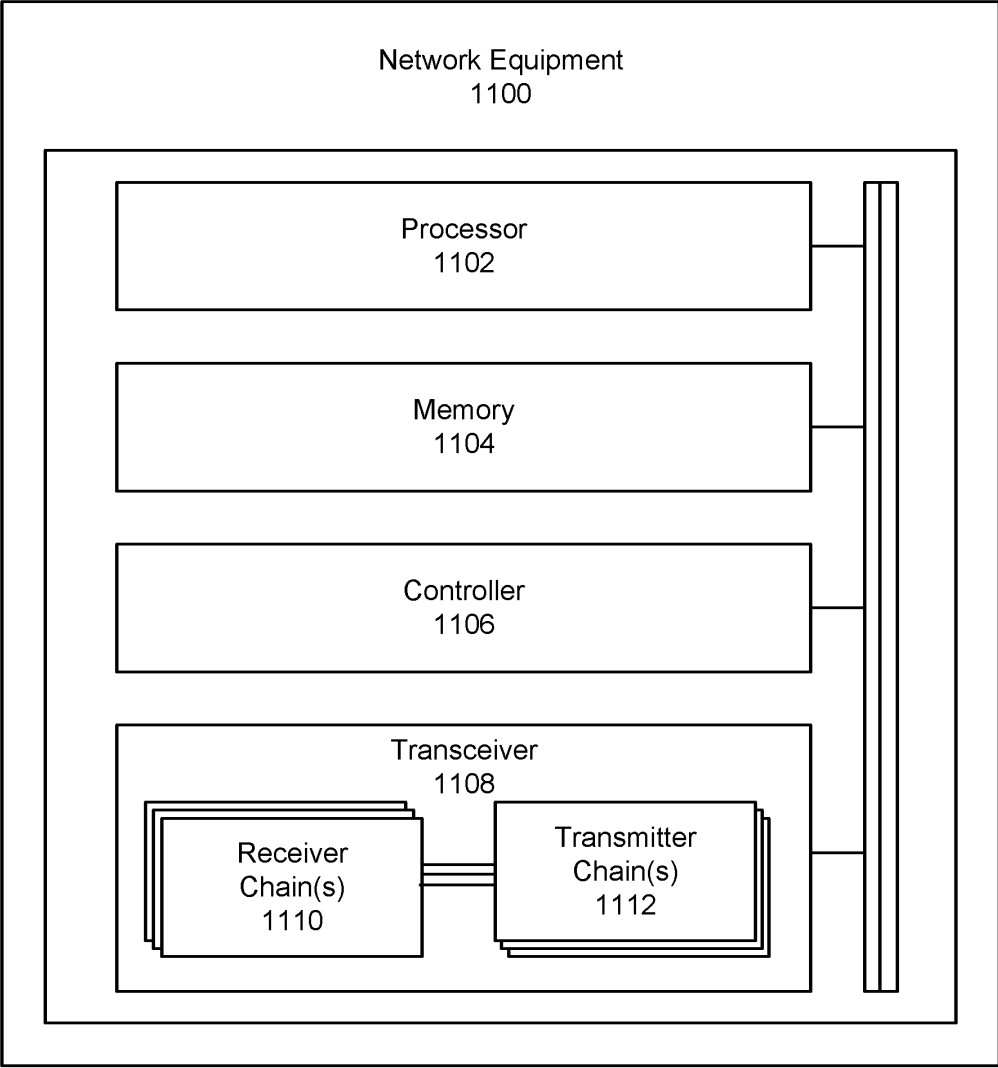


FIG. 11

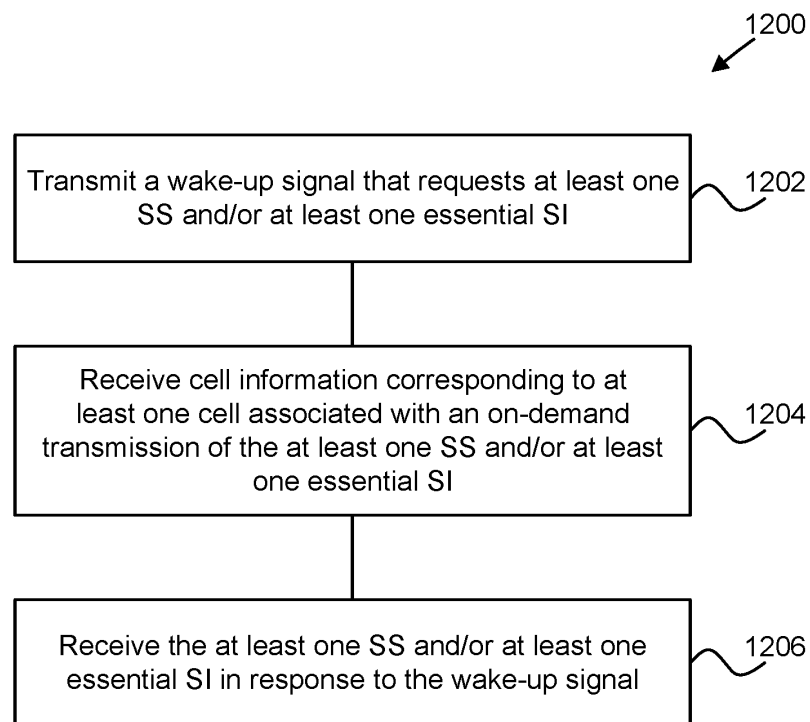


FIG. 12

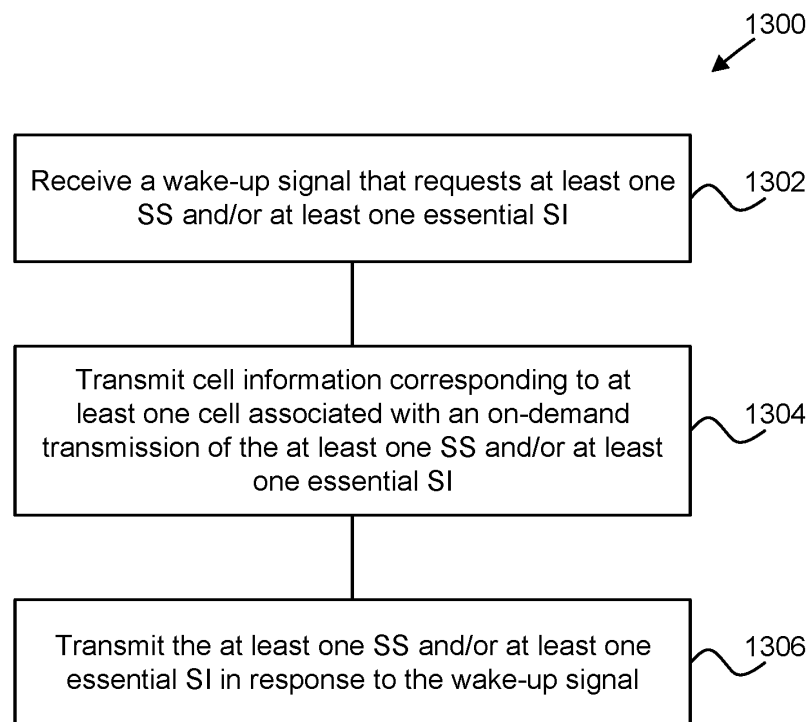


FIG. 13