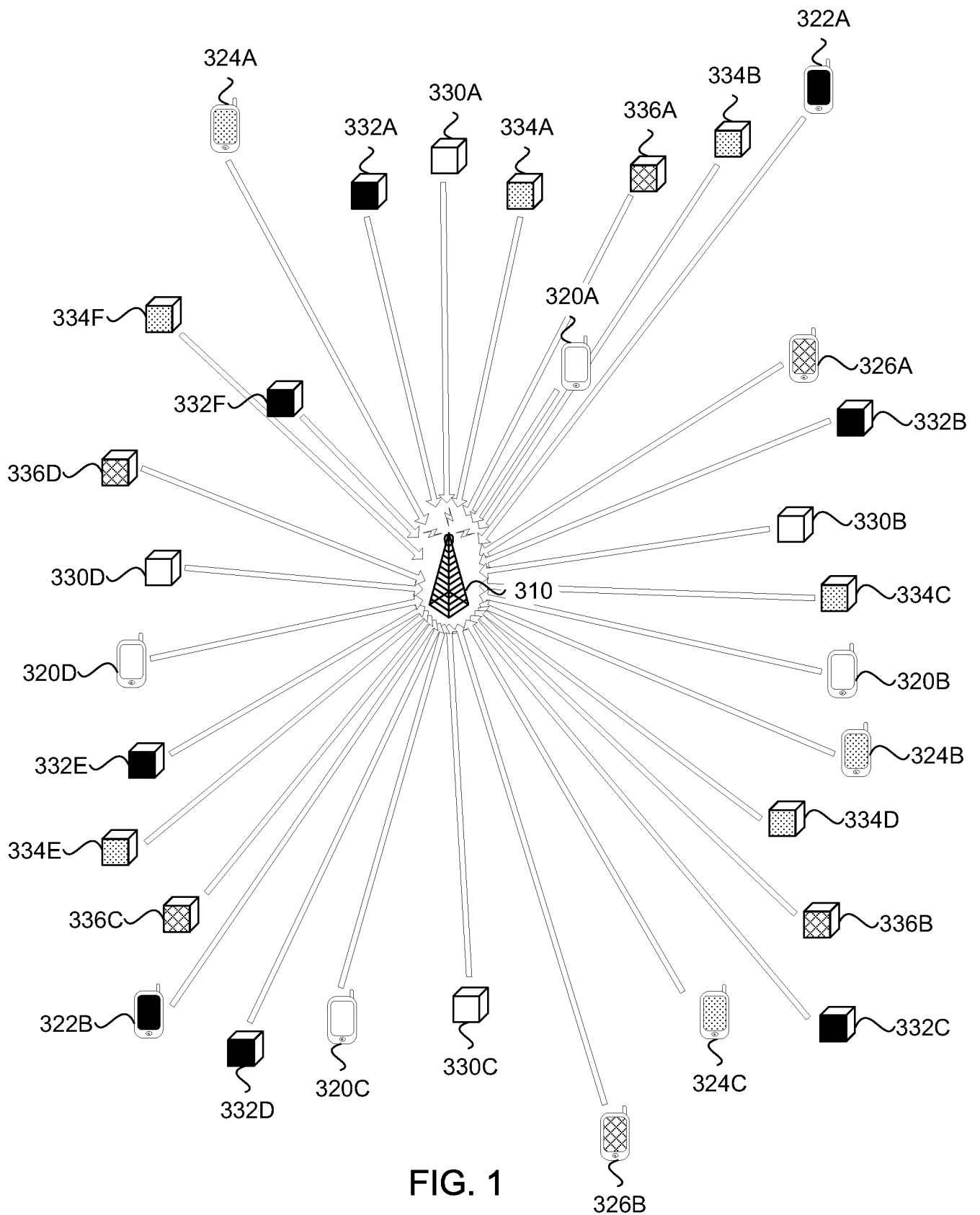


1/15



2/15

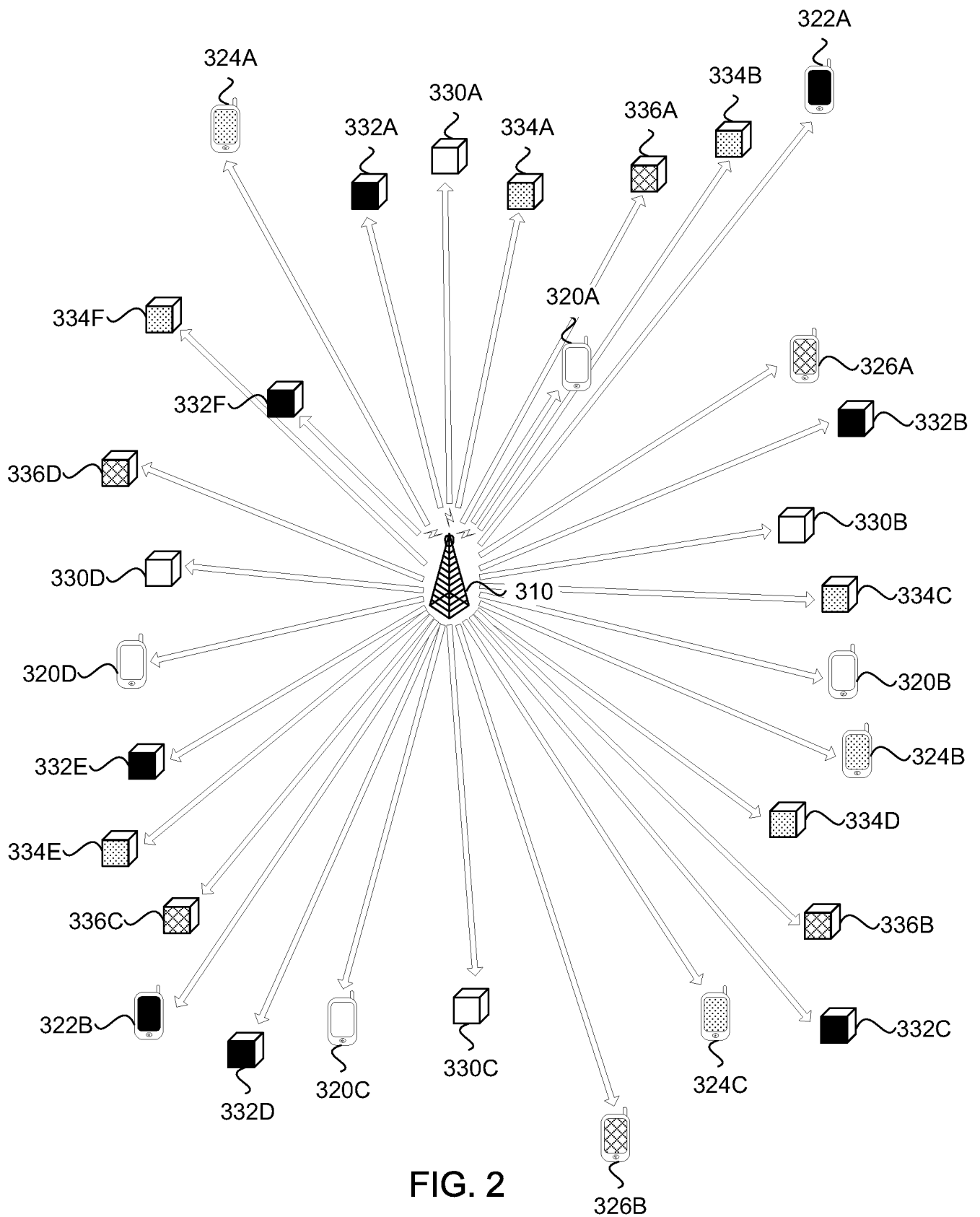


FIG. 2

3/15

```

-- ASN1START

SystemInformationBlockType3 ::= SEQUENCE {
    ac-BarringInfo SEQUENCE {
        ac-BarringForEmergency BOOLEAN,
        ac-BarringForMC-Signalling AC-BarringConfig OPTIONAL, -- Need OF
        ac-BarringForMC-Data AC-BarringConfig OPTIONAL, -- Need OF
    }
    radioResourceConfigCommon RadioResourceConfigCommonSIB,
    ue-TimersAndConstants UE-TimersAndConstants,
    freqInfo SEQUENCE {
        ul-CarrierFreq ARFCN-ValueEUTRA OPTIONAL, -- Need OF
        ul-Bandwidth ENUMERATED {n6, n15, n25, n50, n75, n100} OPTIONAL, -- Need OF
    }
    additionalSpectrumEmission AdditionalSpectrumEmission
},
mbsfn-SubframeConfigList MBSFN-SubframeConfigList OPTIONAL, -- Need CR
timeAlignmentTimerCommon TimeAlignmentTimer,
...,
lateNonCriticalExtension OCTET STRING OPTIONAL, -- Need OF
[1] ssac-BarringForMMIEL-Voice-r9 AC-BarringConfig OPTIONAL, -- Need OF
[2] ssac-BarringForMMIEL-Video-r9 AC-BarringConfig OPTIONAL, -- Need OF
],
[1] ac-BarringForCSFB-r10 AC-BarringConfig OPTIONAL, -- Need OF
],
[1] eab-BarringForMO-r11 EAB-BarringConfig OPTIONAL, -- Need OF
]
}

AC-BarringConfig ::= SEQUENCE {
    ac-BarringFactor ENUMERATED {
        p00, p05, p10, p15, p20, p25, p30, p40,
        p50, p60, p70, p75, p80, p85, p90, p95},
    ac-BarringTime ENUMERATED {s4, s8, s16, s32, s64, s128, s256, s512},
    ac-BarringForSpecialAC BIT STRING (SIZE(5))
}

EAB-BarringConfig ::= SEQUENCE {
    eab-BarringCategory BIT STRING (SIZE(3)),
    eab-BarringFactor ENUMERATED {
        p00, p05, p10, p15, p20, p25, p30, p40,
        p50, p60, p70, p75, p80, p85, p90, p95},
    eab-BarringTime ENUMERATED {s4, s8, s16, s32, s64, s128, s256, s512},
}

MBSFN-SubframeConfigList ::= SEQUENCE (SIZE (1..maxMBSFN-Allocations)) OF MBSFN-SubframeConfig

-- ASN1STOP

```

FIG. 3

```

-- ASN1START

SystemInformationBlockType14 ::= SEQUENCE {
    eab-BarringForMO-r11 EAB-BarringConfig OPTIONAL, -- Need OF
}

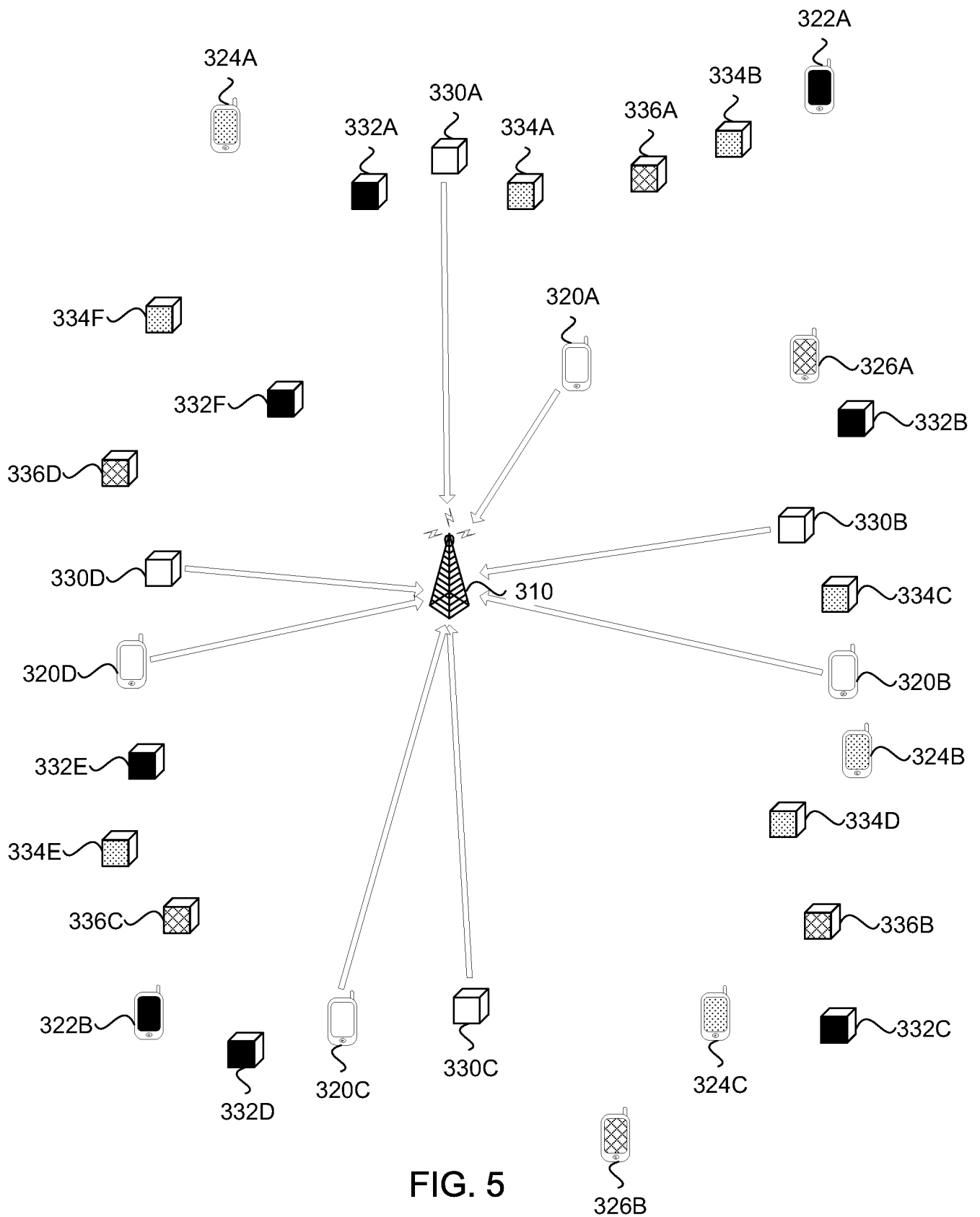
EAB-BarringConfig ::= SEQUENCE {
    eab-BarringCategory BIT STRING (SIZE(3)),
    eab-BarringFactor ENUMERATED {
        p00, p05, p10, p15, p20, p25, p30, p40,
        p50, p60, p70, p75, p80, p85, p90, p95},
    eab-BarringTime ENUMERATED {s4, s8, s16, s32, s64, s128, s256, s512},
}

-- ASN1STOP

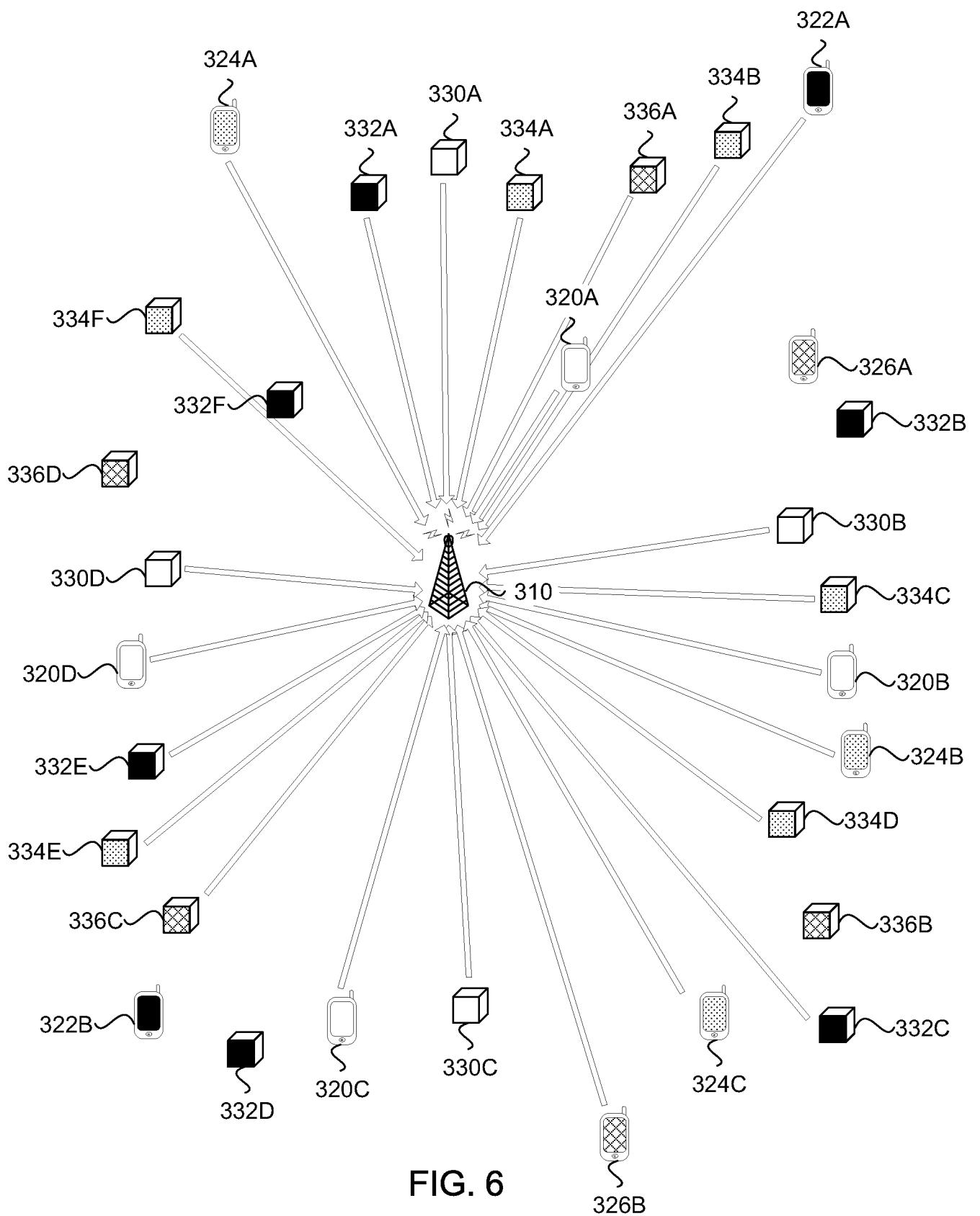
```

FIG. 4

4/15



5/15



6/15

```

-- ASN1START

Paging ::=
    pagingRecordList      SEQUENCE {
        pagingRecordList      PagingRecordList      OPTIONAL, -- Need ON
        systemInfoModification ENUMERATED {true}      OPTIONAL, -- Need ON
        etws-Indication        ENUMERATED {true}      OPTIONAL, -- Need ON
        nonCriticalExtension    Paging-v890-IEs        OPTIONAL
    }

Paging-v890-IEs ::=
    SEQUENCE {
        lateNonCriticalExtension OCTET STRING          OPTIONAL, -- Need OF
        nonCriticalExtension      Paging-v890-IEs        OPTIONAL
    }

Paging-v920-IEs ::=
    SEQUENCE {
        cras-Indication-r9      ENUMERATED {true}      OPTIONAL, -- Need ON
        nonCriticalExtension      Paging-v11-IEsSEQUENCE {} OPTIONAL
        -- Need OF
    }

Paging-v11-IEs ::=
    SEQUENCE {
        eab-Indication          ENUMERATED {true}      OPTIONAL, -- Need ON
        nonCriticalExtension      SEQUENCE {}            OPTIONAL, -- Need OF
    }

PagingRecordList ::=
    SEQUENCE (SIZE (1..maxPageRec)) OF PagingRecord

PagingRecord ::=
    SEQUENCE {
        ue-Identity            PagingUE-Identity,
        cn-Domain              ENUMERATED {ps, cs},
        ...
    }

PagingUE-Identity ::=
    CHOICE {
        s-TMSI                S-TMSI,
        imsi                  IMSI,
        ...
    }

IMSI ::=
    SEQUENCE (SIZE (6..21)) OF IMSI-Digit

IMSI-Digit ::=
    INTEGER {0..9}

-- ASN1STOP

```

FIG. 7A

```

Paging-v11-IEs ::=
    SEQUENCE {
        eab-Indication          BIT STRING (SIZE(3)),      OPTIONAL, -- Need ON
        nonCriticalExtension      SEQUENCE {}              OPTIONAL, -- Need OF
    }

```

FIG. 7B

7/15

```

-- ASN1START

RRCConnectionRequest ::= SEQUENCE {
    criticalExtensions    CHOICE {
        rrcConnectionRequest-r8          RRCConnectionRequest-r8-IEs,
        criticalExtensionsFuture          SEQUENCE {} CHOICE {
            rrcConnectionRequest-r11      RRCConnectionRequest-r11-IEs,
            criticalExtensionsFuture-r11   SEQUENCE {}
        }
    }
}

RRCConnectionRequest-r11-IEs ::= SEQUENCE {
    rrcConnectionRequest-r8          RRCConnectionRequest-r8-IEs,
    eabConfiguration                EABConfiguration OPTIONAL,
    nonCriticalExtensions            SEQUENCE {} OPTIONAL
}

RRCConnectionRequest-r8-IEs ::= SEQUENCE {
    ue-Identity                    InitialUE-Identity,
    establishmentCause             EstablishmentCause,
    spare                          BIT STRING (SIZE (1))
}

InitialUE-Identity ::= CHOICE {
    s-TMSI                        S-TMSI,
    randomValue                   BIT STRING (SIZE (40))
}

EstablishmentCause ::= ENUMERATED {
    emergency, highPriorityAccess, mt-Access, mo-Signal,
    mo-Data, delayTolerantAccess-v1030, spare2, spare1
}

EABConfiguration ::= ENUMERATED {
    cat1, cat2, spare 3, spare2, spare 1
}

-- ASN1STOP

```

FIG. 8

8/15

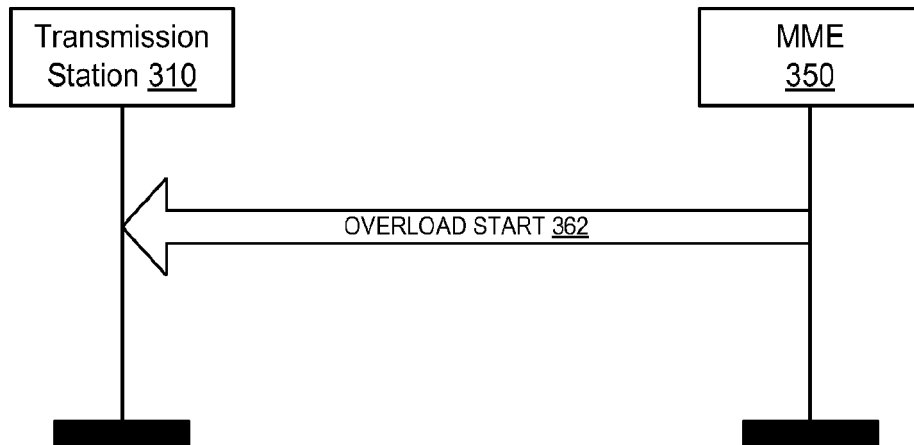


FIG. 9

```

-- *****
--
-- Information Element Definitions
--
-- *****

...
...
...

OverloadAction ::= ENUMERATED {
    reject-non-emergency-no-dt,
    reject-rrc-cr-signalling,
    permit-emergency-sessions-and-mobile-terminated-services-only,
    ...,
    permit-high-priority-sessions-and-mobile-terminated-services-only,
    reject-delay-tolerant-access,
    Reject-rrc-cr-for-UEs-configured-for-EAB,
    Reject-rrc-cr-for-UEs-configured-for-EAB-and-registered-neither-in-their-HPLMN-nor-in-equiva
    PLMN,
    Reject-rrc-cr-for-UEs-configured-for-EAB-and-registered-neither-in-the-preferred-PLMN-nor-in
    HPLMN-nor-in-equivalent-PLMN
}

...
...
...

```

FIG. 10

9/15

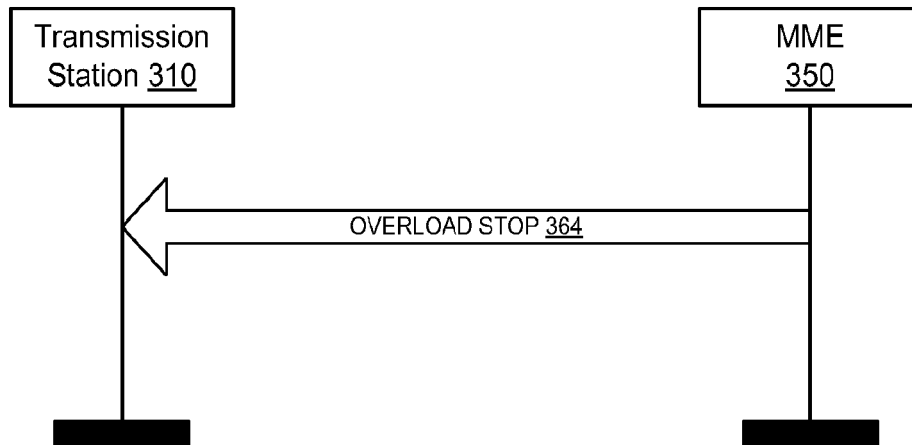


FIG. 11

```

-- *****
--
-- Information Element Definitions
--
-- *****

...
...
...

OverloadAction ::= ENUMERATED {
    reject-non-emergency-mo-dt,
    reject-rrc-or-signalling,
    permit-emergency-sessions-and-mobile-terminated-services-only,
    ...,
    permit-high-priority-sessions-and-mobile-terminated-services-only,
    reject-delay-tolerant-access,
    apply-EAS-for-UEs-configured-for-EAS,
    Apply-EAS-for-UEs-configured-for-EAS-and-registered-neither-in-their-HPLMN-nor-in-equivalent-PLMN,
    Apply-EAS-for-UEs-configured-for-EAS-and-registered-neither-in-the-preferred-PLMN-nor-in-their-HPLMN-
    nor-in-equivalent-PLMN
}

...
...
...

```

FIG. 12

10/15

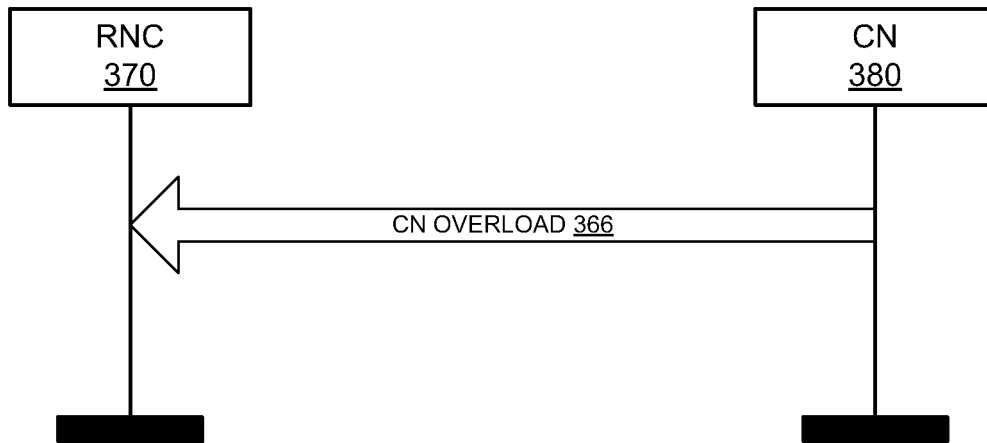


FIG. 13

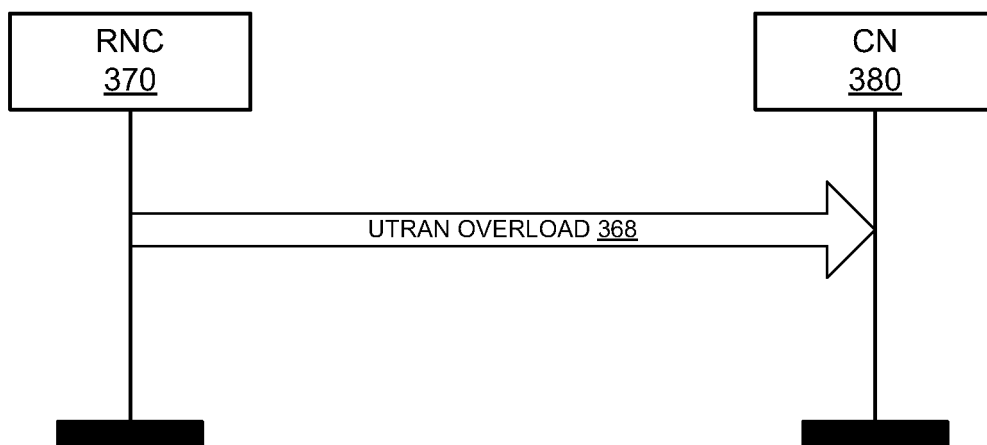


FIG. 14

11/15

```

OverloadExtensions RANAP-PROTOCOL-EXTENSION ::= {
-- Extension for Release 99 to enable the indication to the RNC which CN domain is suffering the
signalling traffic overload --
  { ID id-CN-DomainIndicator          CRITICALITY ignore  EXTENSION CN-DomainIndicator          PRESENC
optional} |
-- Extension for Release 5 to enable NNSF --
  { ID id-GlobalCN-ID                CRITICALITY ignore  EXTENSION GlobalCN-ID                PRESENC
optional} |
-- Extension for Release 7 to indicate extended RNC-ID --
  { ID id-ExtendedRNC-ID              CRITICALITY reject  EXTENSION ExtendedRNC-ID              PRESENC
optional} |
-- Extension for Release 10 to support Low Priority overload --
  { ID id-Priority-Class-Indicator    CRITICALITY ignore  EXTENSION Priority-Class-Indicator    PRESENC
optional},
-- Extension for Release 11 to support Extended Access Barring --
  { ID id-Extended-Access-Barring-Indicator  CRITICALITY ignore  EXTENSION Extended-Access-Barring-
Indicator  PRESENC optional},
  ...
}

Extended-Access-Barring-Indicator ::= BIT STRING (SIZE(8))

```

FIG. 15

12/15

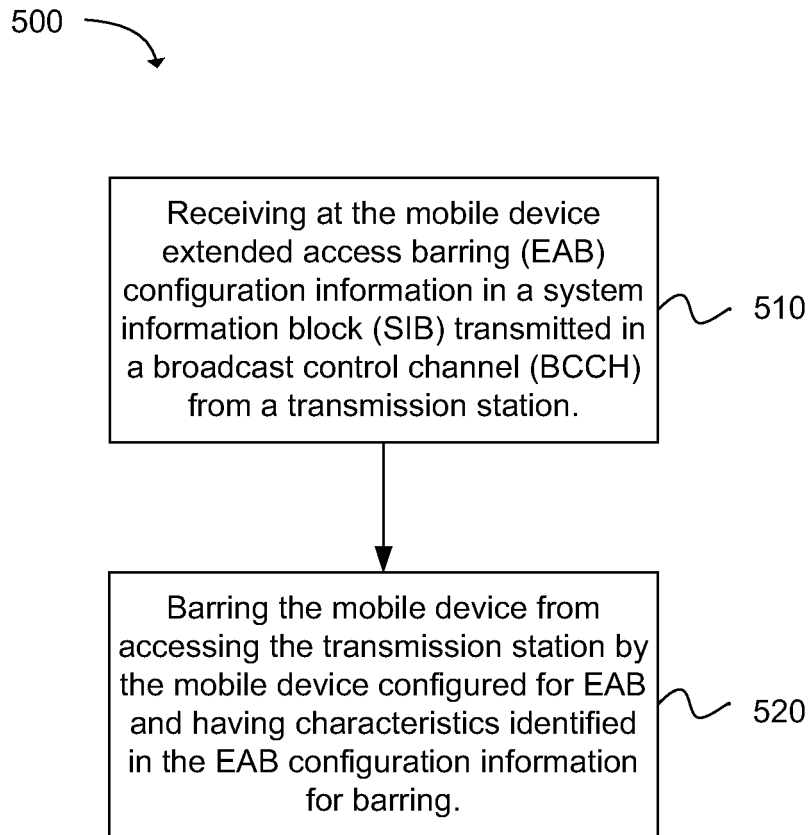


FIG. 16

13/15

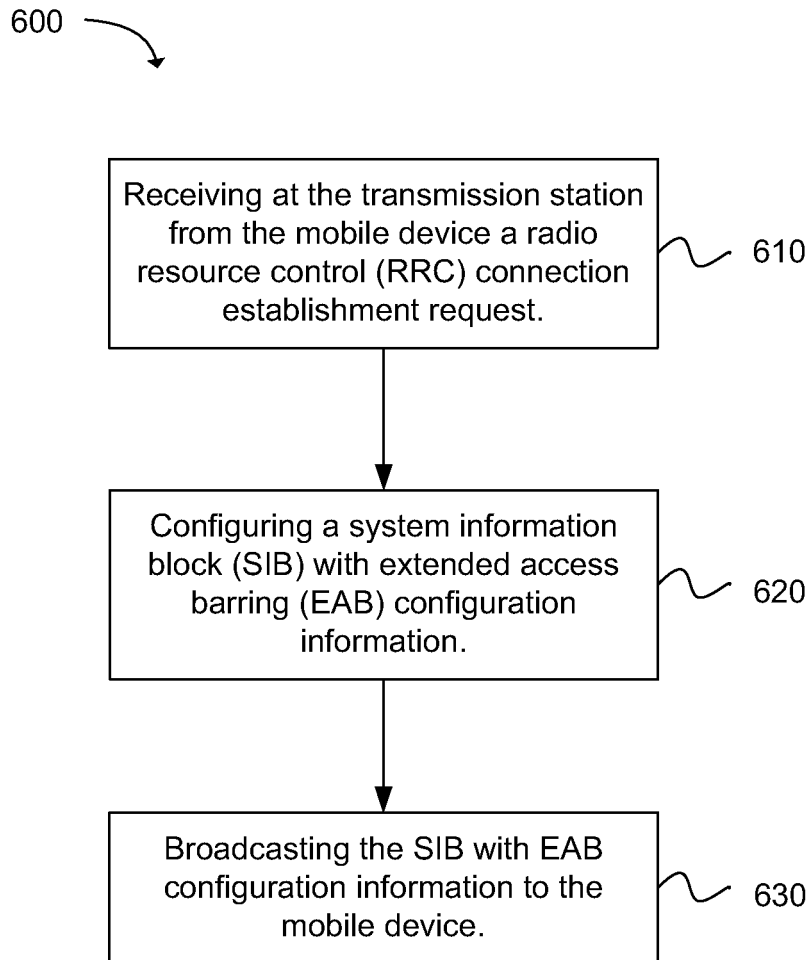


FIG. 17

14/15

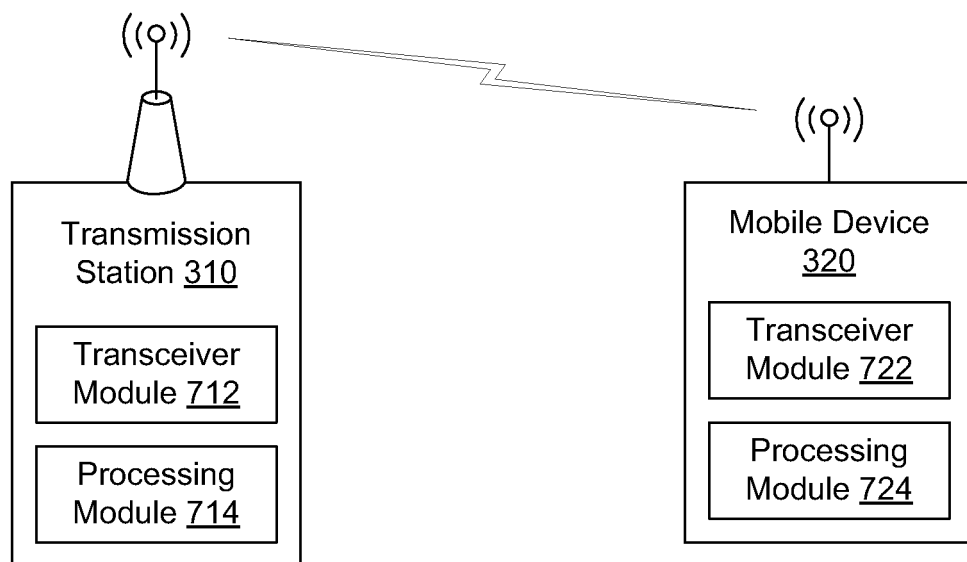


FIG. 18

15/15

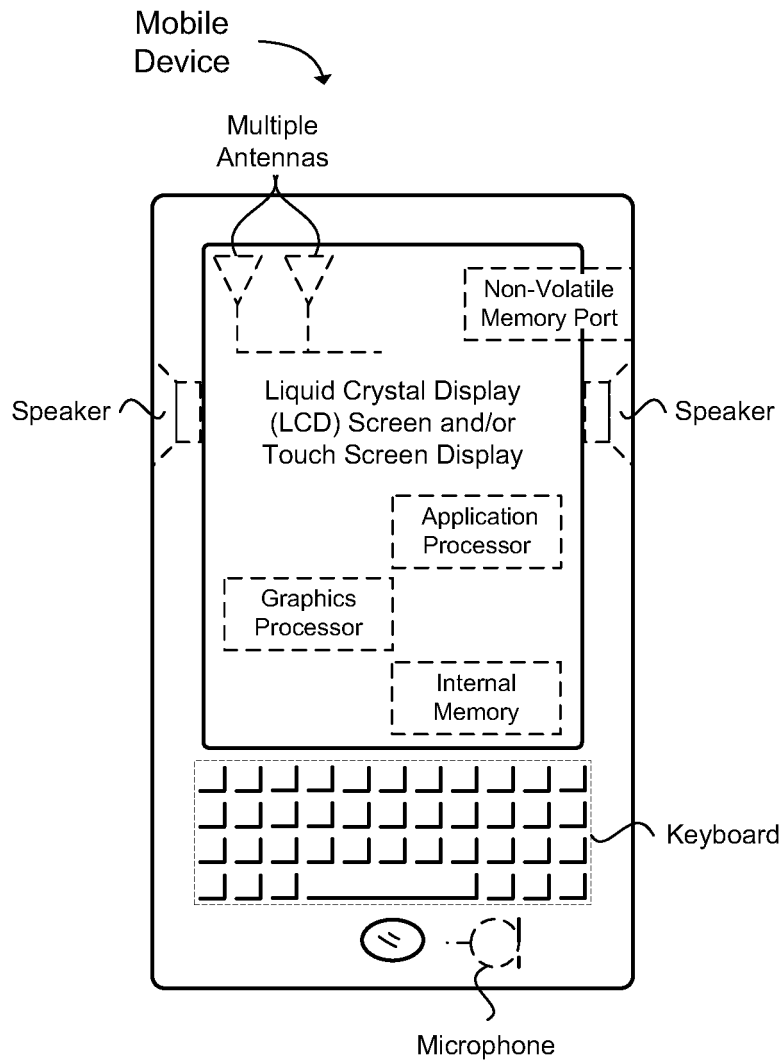


FIG. 19