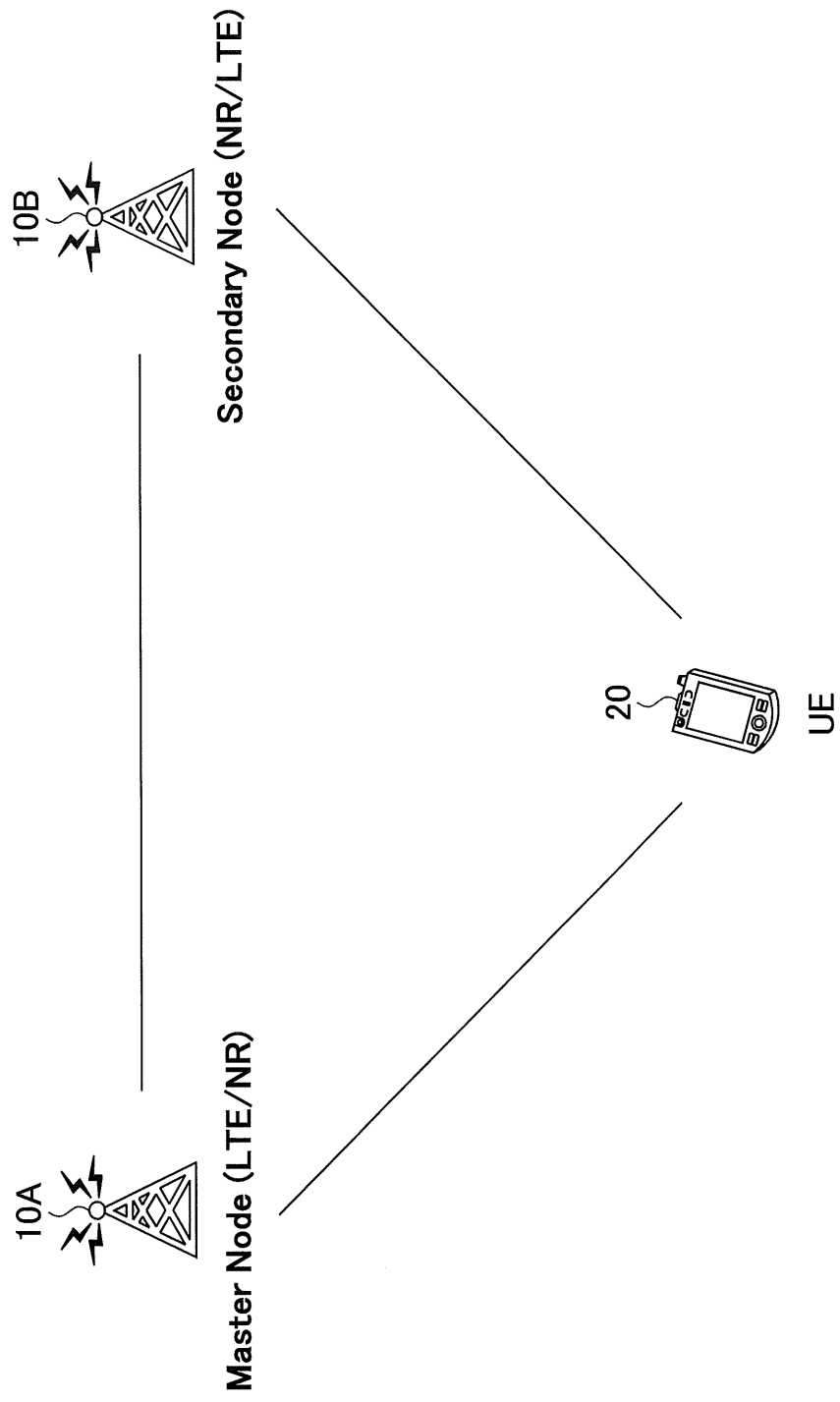


FIG.1



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FIG.2

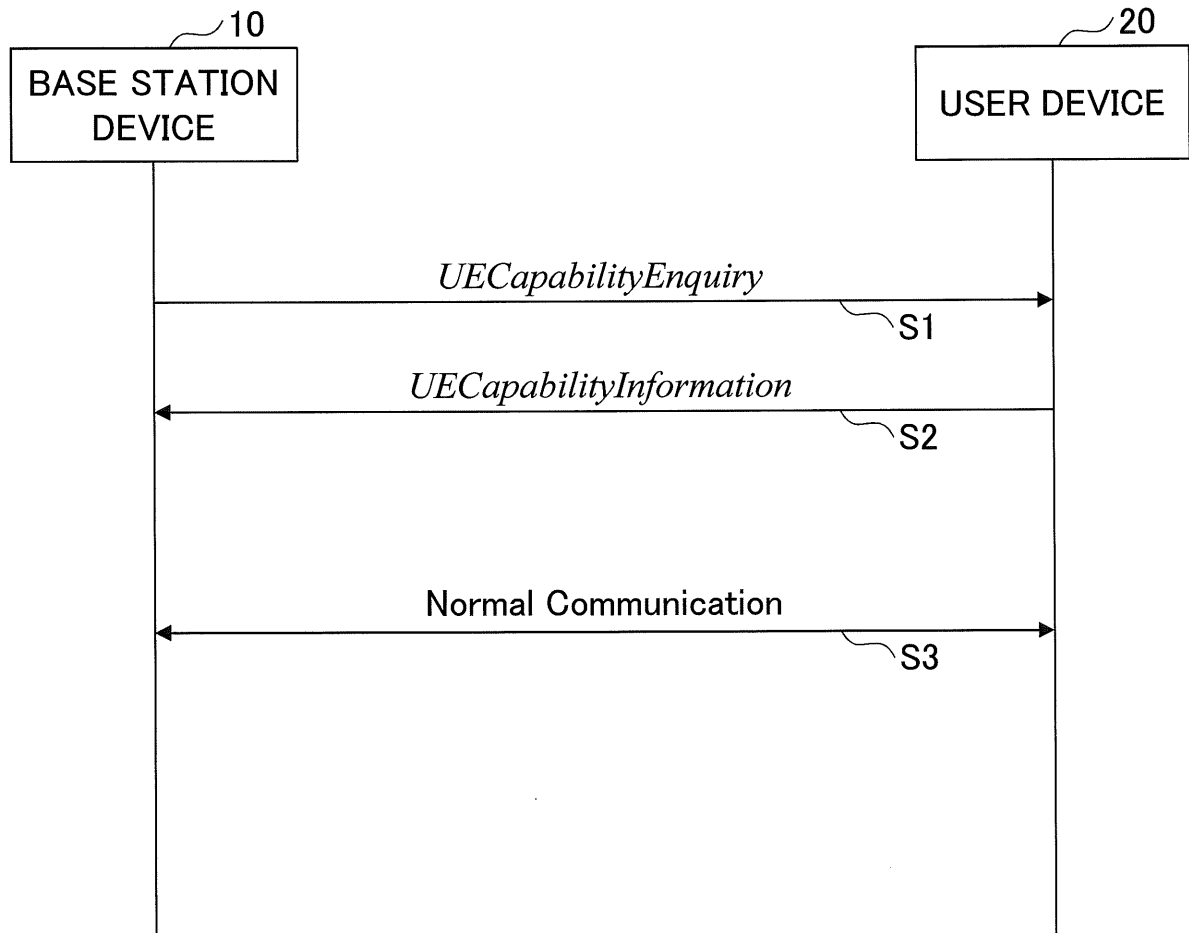


FIG.3

5.6.1.4 Compilation of band combinations supported by the UE

The UE shall:

1> if includes *requestedFreqBandList*:

2> compile a list of band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining band combinations containing the first-listed band, then include remaining band combinations containing the second-listed band, and so on);

2> for each band combination included in the candidate list:

3> if it is regarded as a fallback band combination with the same capabilities of another band combination included in the list of candidates as specified in TS 38.306 [xx]:

4> remove the band combination from the list of candidates;

2> include all band combinations in the candidate list into *supportedBandCombination*;

1> else:

2> include all band combinations supported by the UE into *supportedBandCombination*, excluding fallback band combinations with the same capabilities of another band combination included in the list of band combinations supported by the UE.

<i>requestedFreqBandList</i>
NR band 1
NR band 2
NR band 3
E-UTRA band 1
E-UTRA band 19
E-UTRA band 21

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FIG.4

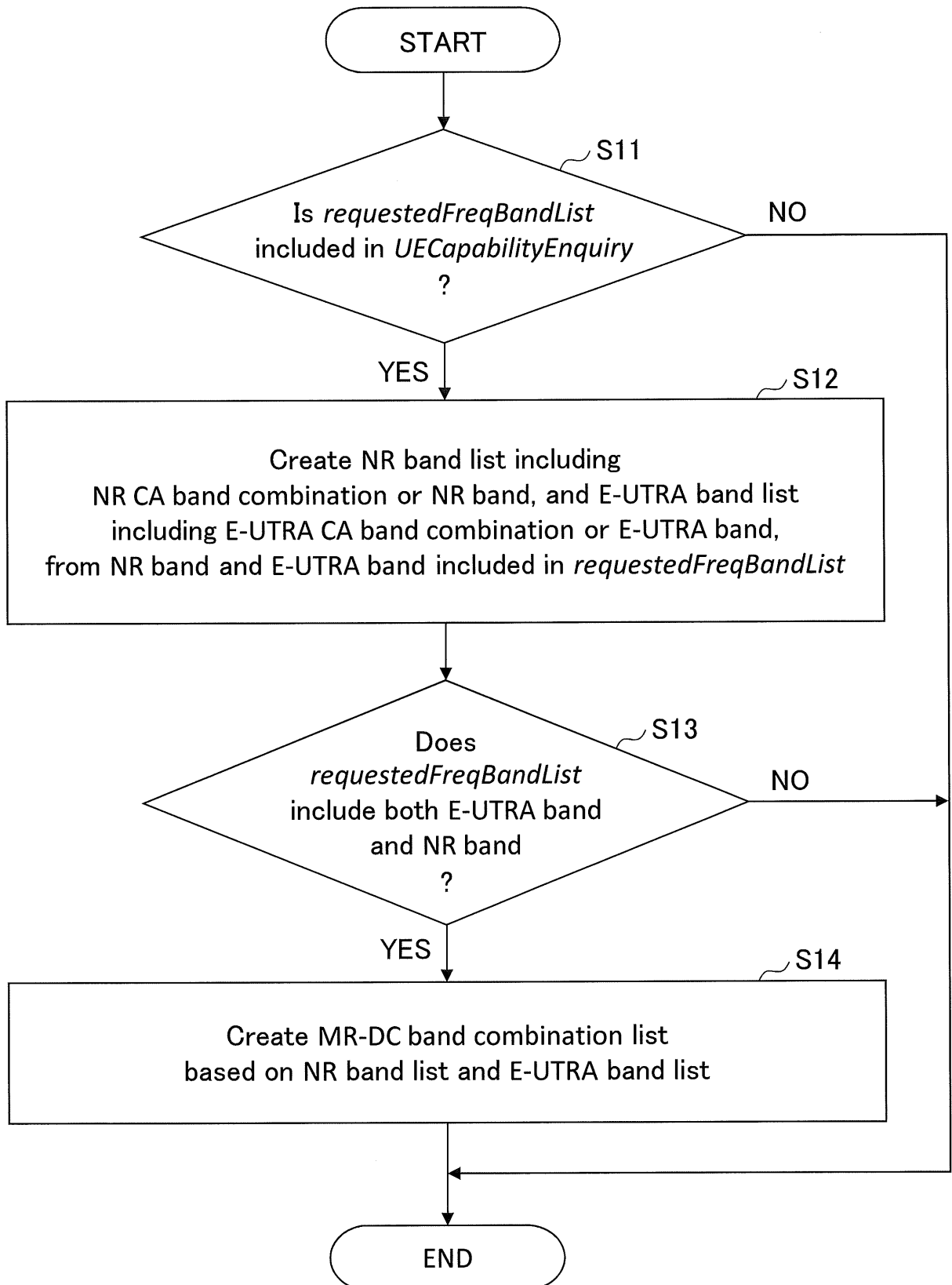


FIG.5

5.6.1.4 Compilation of band combinations supported by the UE

The UE shall:

1> if includes requestedFreqBandList:

- 2> For NR band(s) listed in *requestedFreqBandList* (if exists), compile a list of NR CA band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of NR bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining NR CA band combinations containing the first-listed NR band, then include remaining NR CA band combinations containing the second-listed NR band, and so on);
- 2> For E-UTRA band(s) listed in *requestedFreqBandList* (if exists), compile a list of E-UTRA CA band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of E-UTRA bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining E-UTRA CA band combinations containing the first-listed E-UTRA band, then include remaining E-UTRA CA band combinations containing the second-listed E-UTRA band, and so on);
- 2> if both E-UTRA and NR bands are listed in *requestedFreqBandList*:
 - 3> compile a list of MR-DC band combinations, candidate for inclusion in the *UECapabilityInformation*, only consisting of E-UTRA and NR bands included in *requestedFreqBandList*, and prioritized from the list of NR CA band combinations and E-UTRA CA band combinations as described below;
 - at first, include remaining MR-DC band combinations containing the first listed NR CA band combination;
 - then, include remaining MR-DC band combinations containing the second listed NR CA band combination, and so on.
 - 2> for each band combination included in the candidate list:
 - 3> if it is regarded as a fallback band combination with the same capabilities of another band combination included in the list of candidates as specified in TS 38.306 [xx]:
 - 4> remove the band combination from the list of candidates;
 - 2> include all band combinations in the candidate list into *supportedBandCombination*;
- 1> else:
 - 2> include all band combinations supported by the UE into *supportedBandCombination*, excluding fallback band combinations with the same capabilities of another band combination included in the list of band combinations supported by the UE.

FIG.6

5.6.1.4 Compilation of band combinations supported by the UE

The UE shall:

1> if includes requestedFreqBandList:

2> For NR band(s) listed in *requestedFreqBandList* (if exists), compile a list of NR CA band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of NR bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining NR CA band combinations containing the first-listed NR band, then include remaining NR CA band combinations containing the second-listed NR band, and so on);

2> For E-UTRA band(s) listed in *requestedFreqBandList* (if exists), compile a list of E-UTRA CA band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of E-UTRA bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining E-UTRA CA band combinations containing the first-listed E-UTRA band, then include remaining E-UTRA CA band combinations containing the second-listed E-UTRA band, and so on);

2> if both E-UTRA and NR bands are listed in *requestedFreqBandList*:

3> compile a list of MR-DC band combinations, candidate for inclusion in the *UECapabilityInformation*, only consisting of E-UTRA and NR bands included in *requestedFreqBandList*, and prioritized from the list of NR CA band combinations and E-UTRA CA band combinations as described below;

- at first, include remaining MR-DC band combinations containing the first listed E-UTRA CA band combination;
- then, include remaining MR-DC band combinations containing the second listed E-UTRA CA band combination, and so on.

2> for each band combination included in the candidate list:

3> if it is regarded as a fallback band combination with the same capabilities of another band combination included in the list of candidates as specified in TS 38.306 [xx]:

4> remove the band combination from the list of candidates;

2> include all band combinations in the candidate list into *supportedBandCombination*;

1> else:

2> include all band combinations supported by the UE into *supportedBandCombination*, excluding fallback band combinations with the same capabilities of another band combination included in the list of band combinations supported by the UE.

FIG.7

5.6.1.4 Compilation of band combinations supported by the UE

The UE shall:

1> if includes requestedFreqBandList:

2> For NR band(s) listed in *requestedFreqBandList* (if exists), compile a list of NR CA band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of NR bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining NR CA band combinations containing the first-listed NR band, then include remaining NR CA band combinations containing the second-listed NR band, and so on);

2> For E-UTRA band(s) listed in *requestedFreqBandList* (if exists), compile a list of E-UTRA CA band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of E-UTRA bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining E-UTRA CA band combinations containing the first-listed E-UTRA band, then include remaining E-UTRA CA band combinations containing the second-listed E-UTRA band, and so on);

2> if both E-UTRA and NR bands are listed in *requestedFreqBandList*:

3> compile a list of MR-DC band combinations, candidate for inclusion in the *UECapabilityInformation*, only consisting of E-UTRA and NR bands included in *requestedFreqBandList*, and prioritized from the list of NR CA band combinations and E-UTRA CA band combinations as described below;

- at first, include remaining MR-DC band combinations containing the first listed E-UTRA CA band combination;
- include remaining MR-DC band combinations containing the first listed NR CA band combination;
- include remaining MR-DC band combinations containing the second listed E-UTRA CA band combination;
- include remaining MR-DC band combinations containing the second listed NR CA band combination, and so on.

2> for each band combination included in the candidate list:

3> if it is regarded as a fallback band combination with the same capabilities of another band combination included in the list of candidates as specified in TS 38.306 [xx]:

4> remove the band combination from the list of candidates;

2> include all band combinations in the candidate list into *supportedBandCombination*;

1> else:

2> include all band combinations supported by the UE into *supportedBandCombination*, excluding fallback band combinations with the same capabilities of another band combination included in the list of band combinations supported by the UE.

FIG.8

5.6.1.4 Compilation of band combinations supported by the UE

The UE shall:

1> if includes requestedFreqBandList:

- 2> For NR band(s) listed in *requestedFreqBandList* (if exists), compile a list of NR CA band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of NR bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining NR CA band combinations containing the first-listed NR band, then include remaining NR CA band combinations containing the second-listed NR band, and so on);
- 2> For E-UTRA band(s) listed in *requestedFreqBandList* (if exists), compile a list of E-UTRA CA band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of E-UTRA bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining E-UTRA CA band combinations containing the first-listed E-UTRA band, then include remaining E-UTRA CA band combinations containing the second-listed E-UTRA band, and so on);
- 2> if both E-UTRA and NR bands are listed in *requestedFreqBandList*:
 - 3> compile a list of MR-DC band combinations, candidate for inclusion in the *UECapabilityInformation*, only consisting of E-UTRA and NR bands included in *requestedFreqBandList*, and prioritized from the list of NR CA band combinations and E-UTRA CA band combinations as described below;
 - at first, include remaining MR-DC band combinations containing the first listed NR CA band combination;
 - include remaining MR-DC band combinations containing the first listed E-UTRA CA band combination;
 - include remaining MR-DC band combinations containing the second listed NR CA band combination;
 - include remaining MR-DC band combinations containing the second listed E-UTRA CA band combination, and so on.
 - 2> for each band combination included in the candidate list:
 - 3> if it is regarded as a fallback band combination with the same capabilities of another band combination included in the list of candidates as specified in TS 38.306 [xx]:
 - 4> remove the band combination from the list of candidates;
 - 2> include all band combinations in the candidate list into *supportedBandCombination*;
- 1> else:
 - 2> include all band combinations supported by the UE into *supportedBandCombination*, excluding fallback band combinations with the same capabilities of another band combination included in the list of band combinations supported by the UE.

FIG.9

5.6.1.4 Compilation of band combinations supported by the UE

The UE shall:

- 1> if includes requestedFreqBandList:
 - 2> compile a list of band combinations, candidate for inclusion in the *UECapabilityInformation* message, only consisting of bands included in *requestedFreqBandList*, and prioritized in the order of *requestedFreqBandList*, (i.e. first include remaining band combinations containing the first-listed band, then include remaining band combinations containing the second-listed band, and so on);
 - 2> for each band combination included in the candidate list:
 - 3> if it is regarded as a fallback band combination with the same capabilities of another band combination included in the list of candidates as specified in TS 38.306 [xx]:
 - 4> remove the band combination from the list of candidates;
 - 2> include all band combinations in the candidate list into *supportedBandCombination*;
 - 1> else:
 - 2> include all band combinations supported by the UE into *supportedBandCombination*, excluding fallback band combinations with the same capabilities of another band combination included in the list of band combinations supported by the UE.

Note: One E-UTRA band and one NR band shall be included in the first-listed band and the second-listed band in *requestedFreqBandList*.

FIG.10

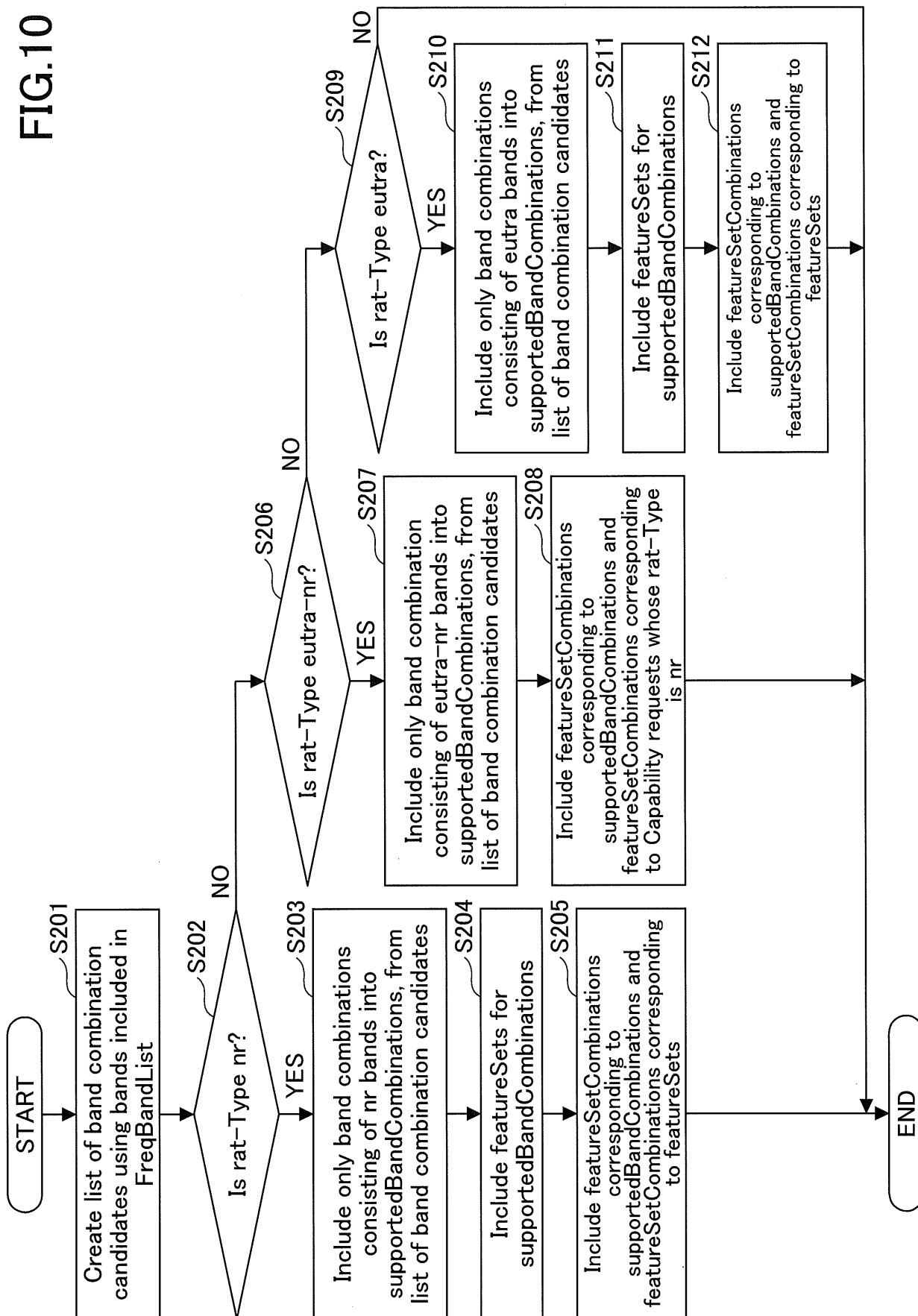


FIG.11

5.6.1.4 Compilation of band combinations supported by the UE

The UE shall:

[...]

1> for each band combination included in the candidate list:

2> if it is regarded as a fallback band combination with the same capabilities of another band combination included in the list of candidates as specified in TS 38.306 [xx]:

3> remove the band combination from the list of candidates;

1> include the band combinations in the candidate list into *supportedBandCombination*;

1> if the requested *rat-Type* is *nr*:

2> from the candidate list, include the band combinations only consisting of NR frequency bands into

supportedBandCombination;

2> include the *featureSets* for the *supportedBandCombinations* included above;

2> include the *featureSetCombinations* corresponding to the *supportedBandCombinations* and for the *featureSets* included above;

1> if the requested *rat-Type* is *eutra-nr*:

2> from the candidate list, include the band combinations consisting of at least one E-UTRA frequency band and one NR frequency band into *supportedBandCombination*;

2> include the *featureSetCombinations* corresponding to the *supportedBandCombinations* included above and to the *featureSets* included in a corresponding capability request for *rat-Type* set to *nr*.

1> if the requested *rat-Type* is *eutra*:

2> from the candidate list, include the band combinations only consisting of E-UTRA frequency bands into *supportedBandCombination*;

2> include the *featureSets* for the *supportedBandCombinations* included above;

2> include the *featureSetCombinations* corresponding to the *supportedBandCombinations* and for the *featureSets* included above;

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FIG.12

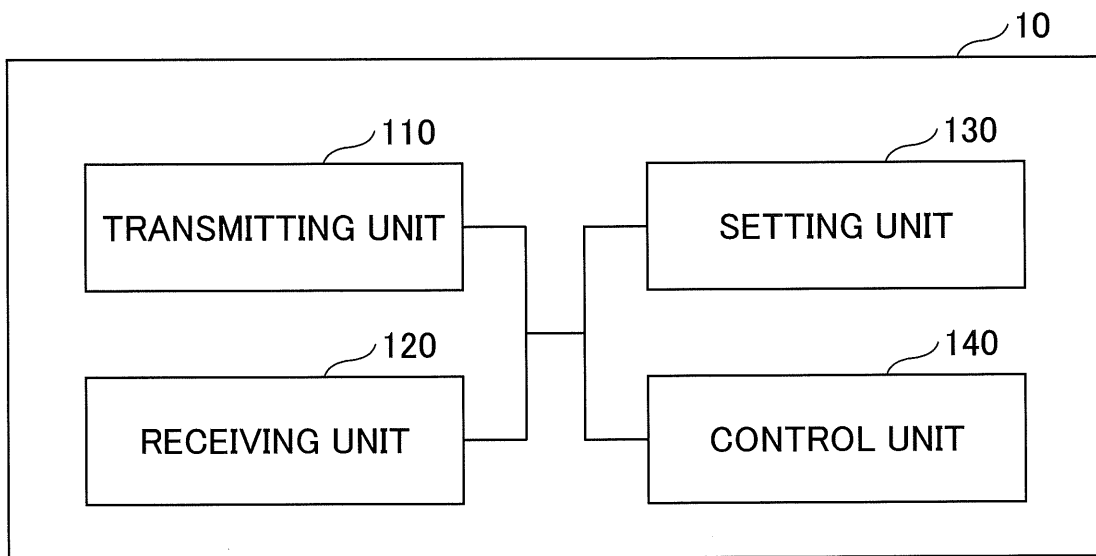
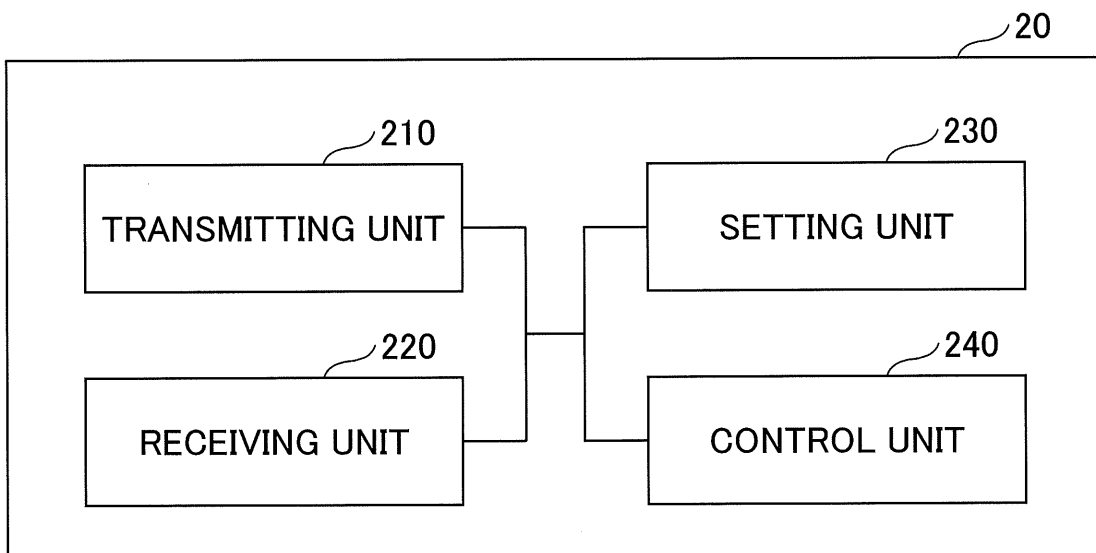


FIG.13



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FIG.14

