

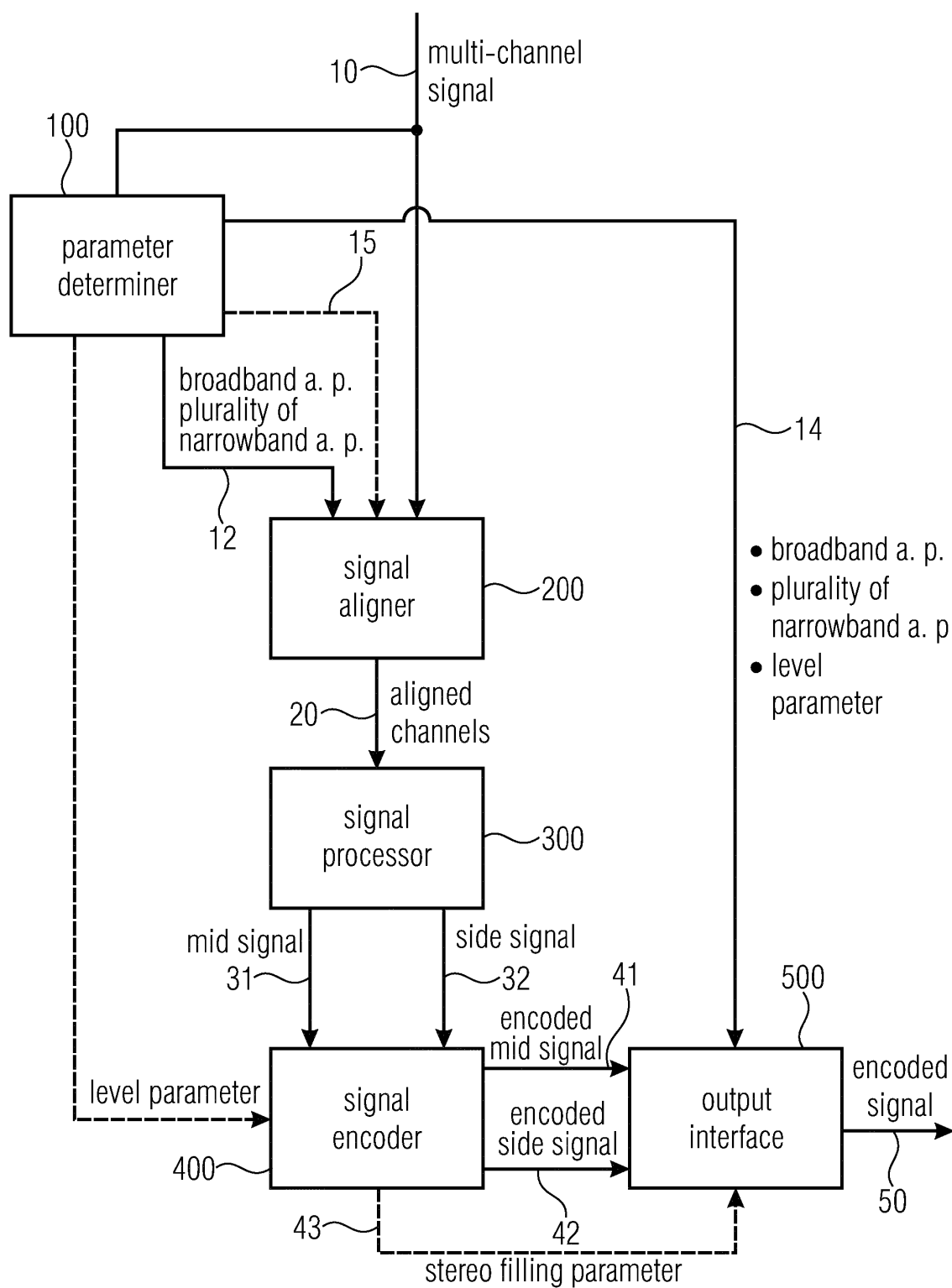


Fig. 1

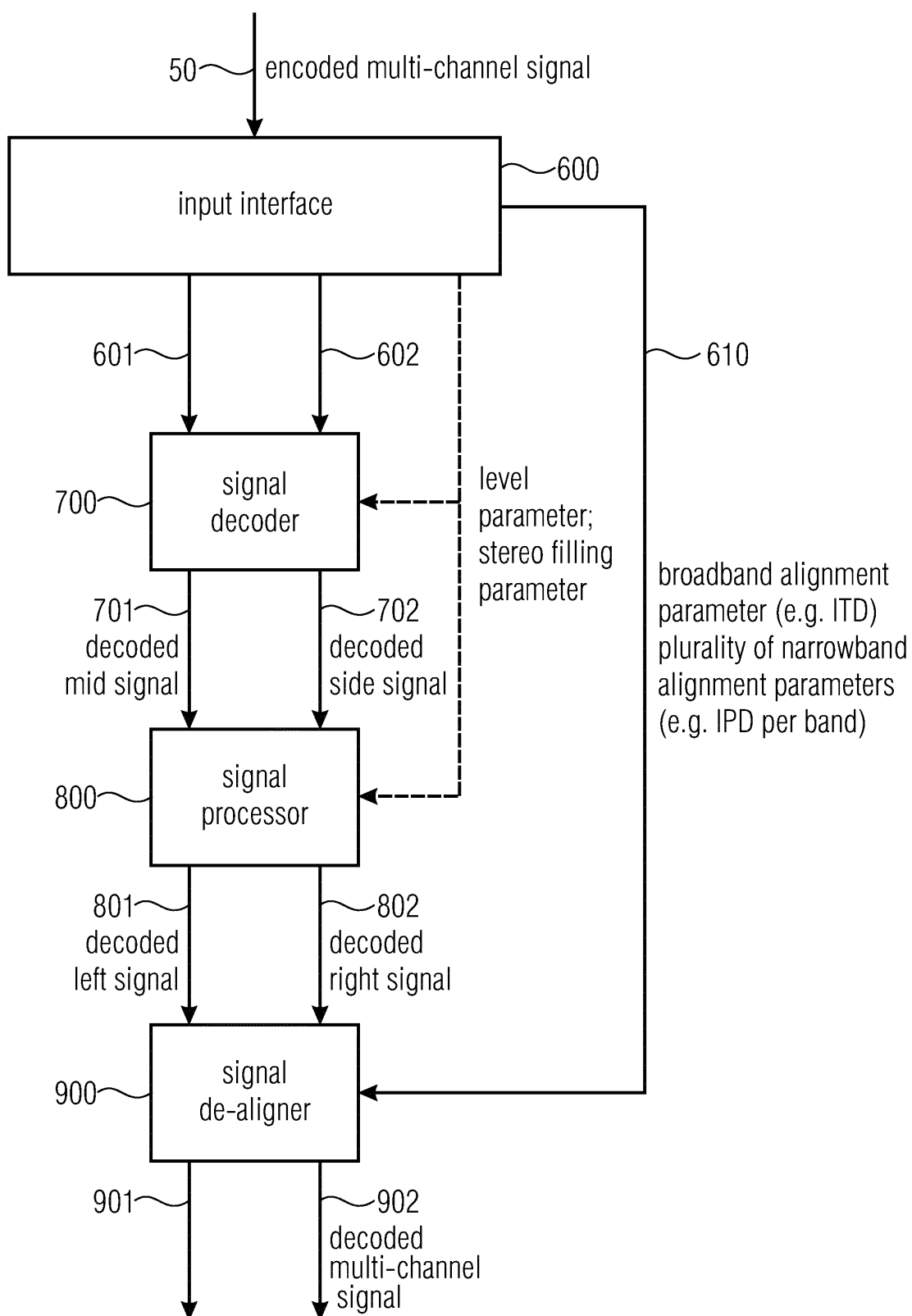
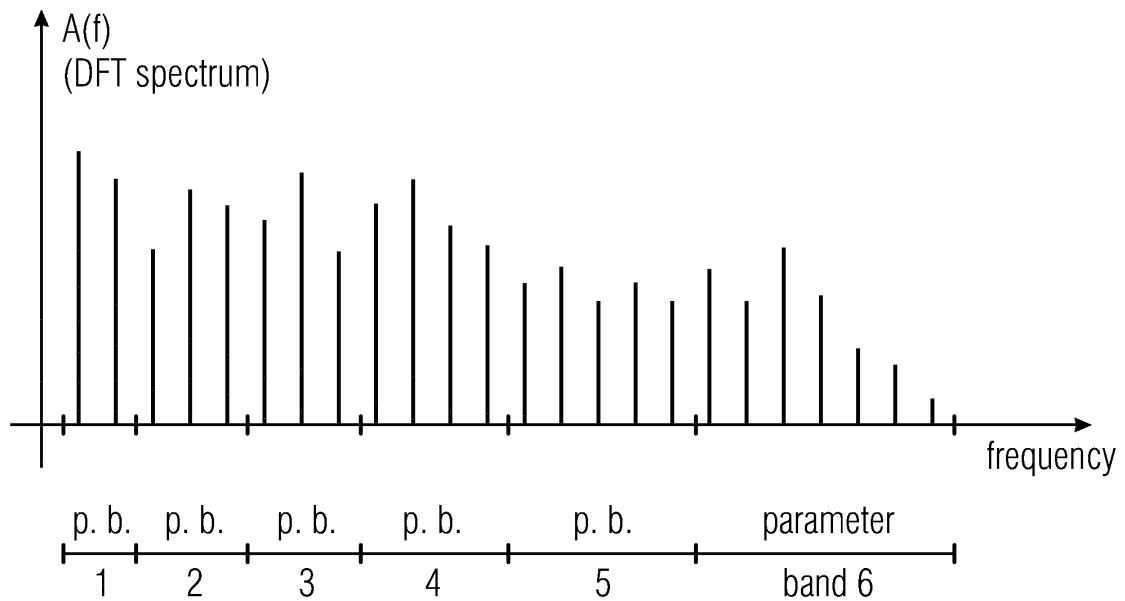


Fig. 2

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- single broadband alignment parameter for whole spectrum (e. g. p. band 1 to p. band 6);
- plurality of narrowband alignment parameters for parameter bands 1, 2, 3, 4, i. e., four narrowband parameters;
- level parameters for each parameter band, e. g. 6 level parameters;
- stereo filling parameters for parameter bands 4, 5, 6, e. g. three stereo filling parameters;
- side (residual) signal for parameter bands 1, 2, 3;
- more spectral lines in higher band, e.g. seven spectral lines in parameter band 6 versus three spectral lines in parameter band 2.

Fig. 3

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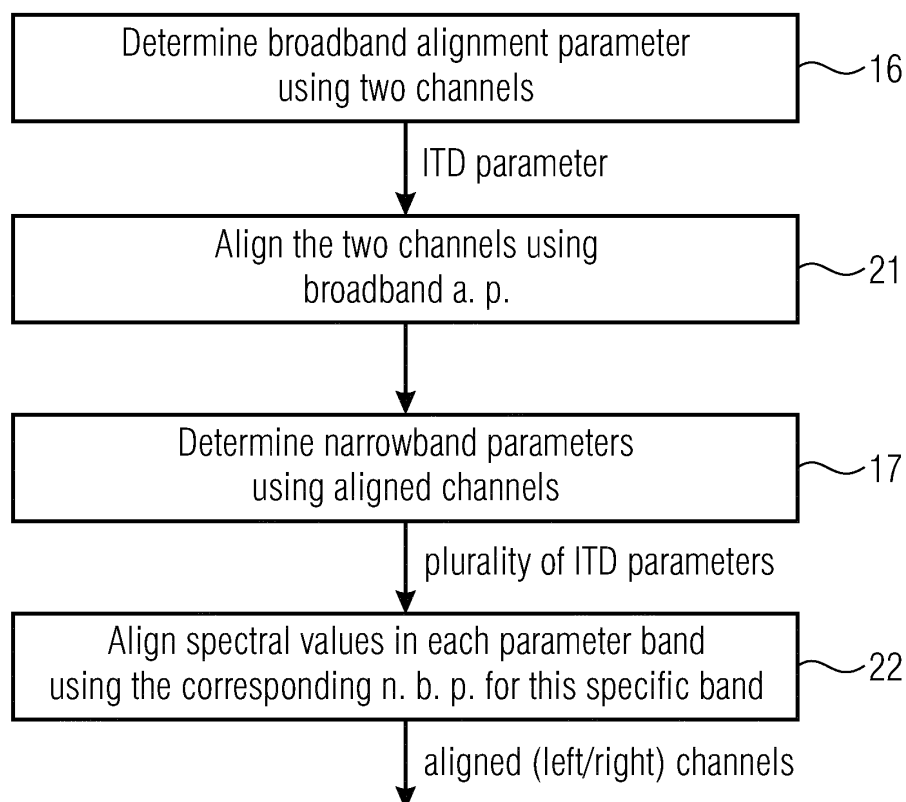


Fig. 4a

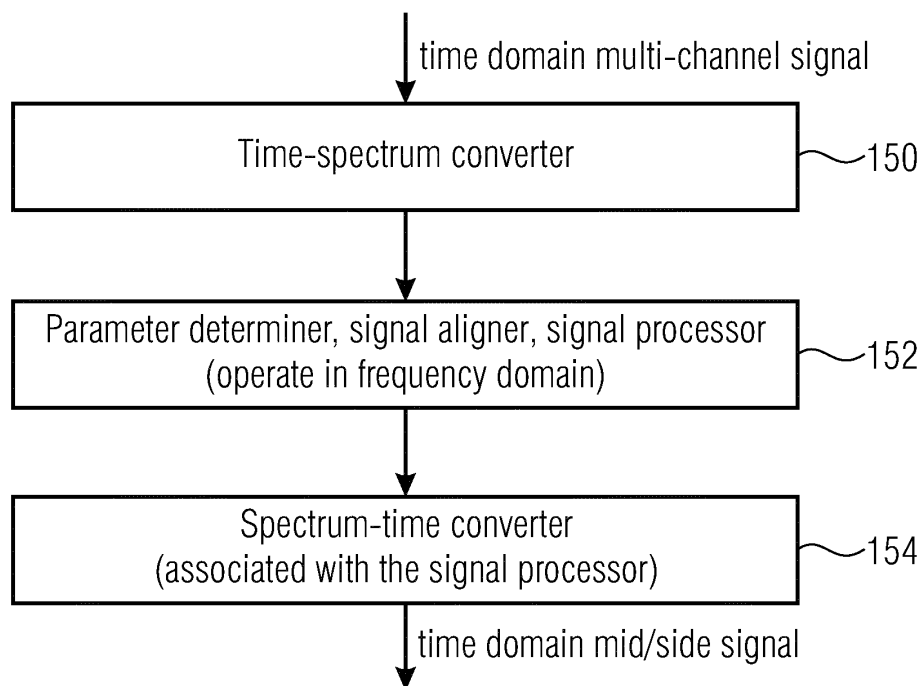


Fig. 4b

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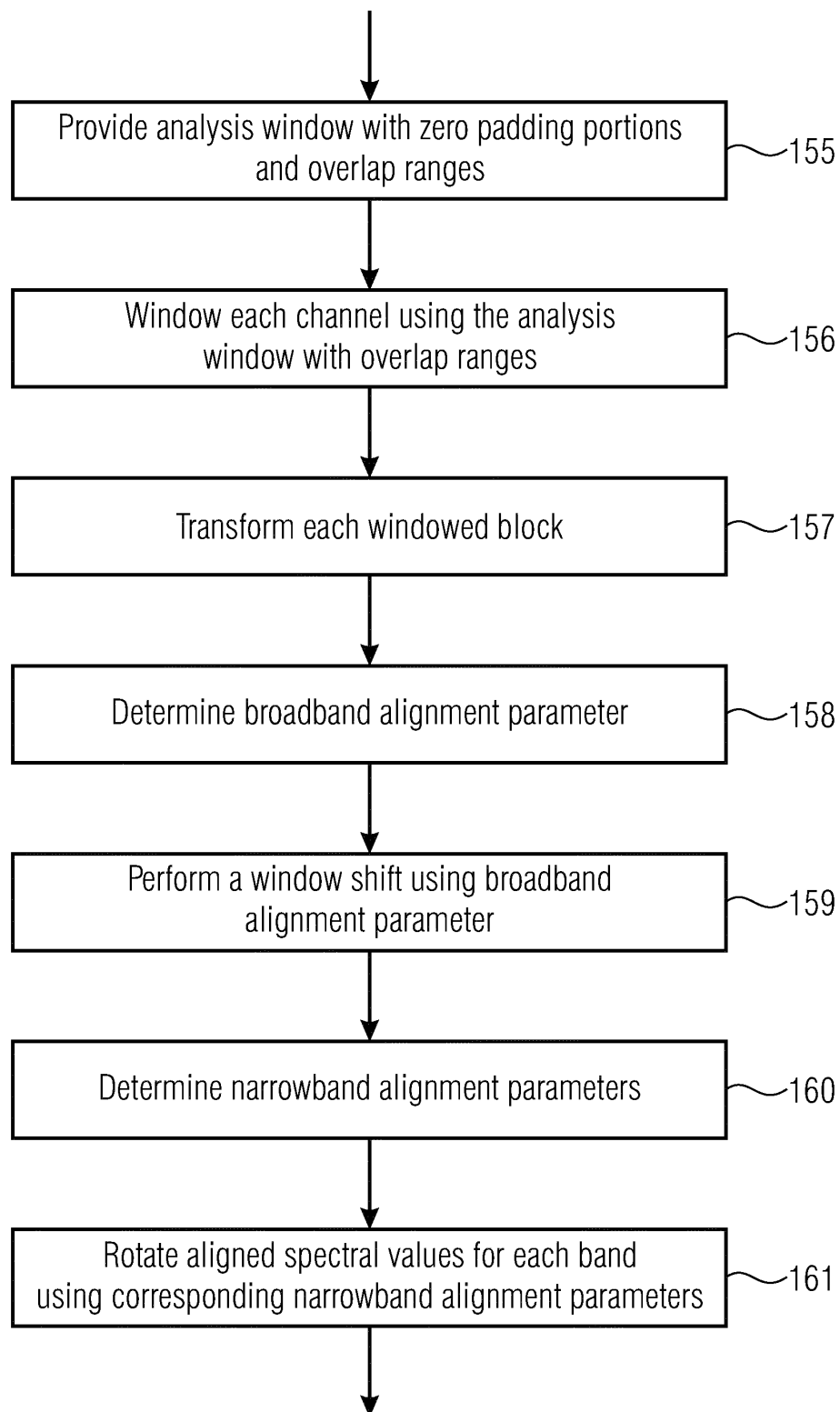


Fig. 4c

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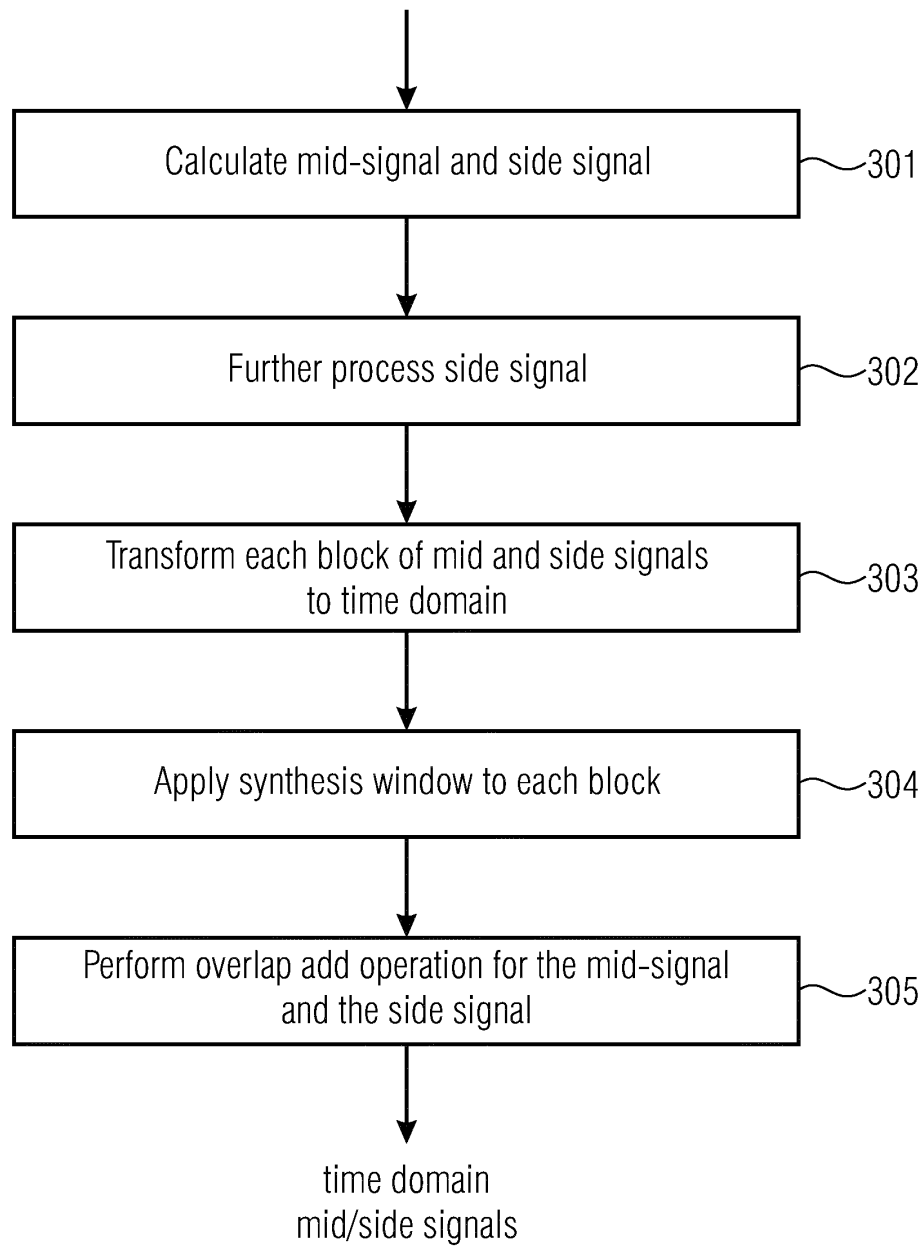


Fig. 4d

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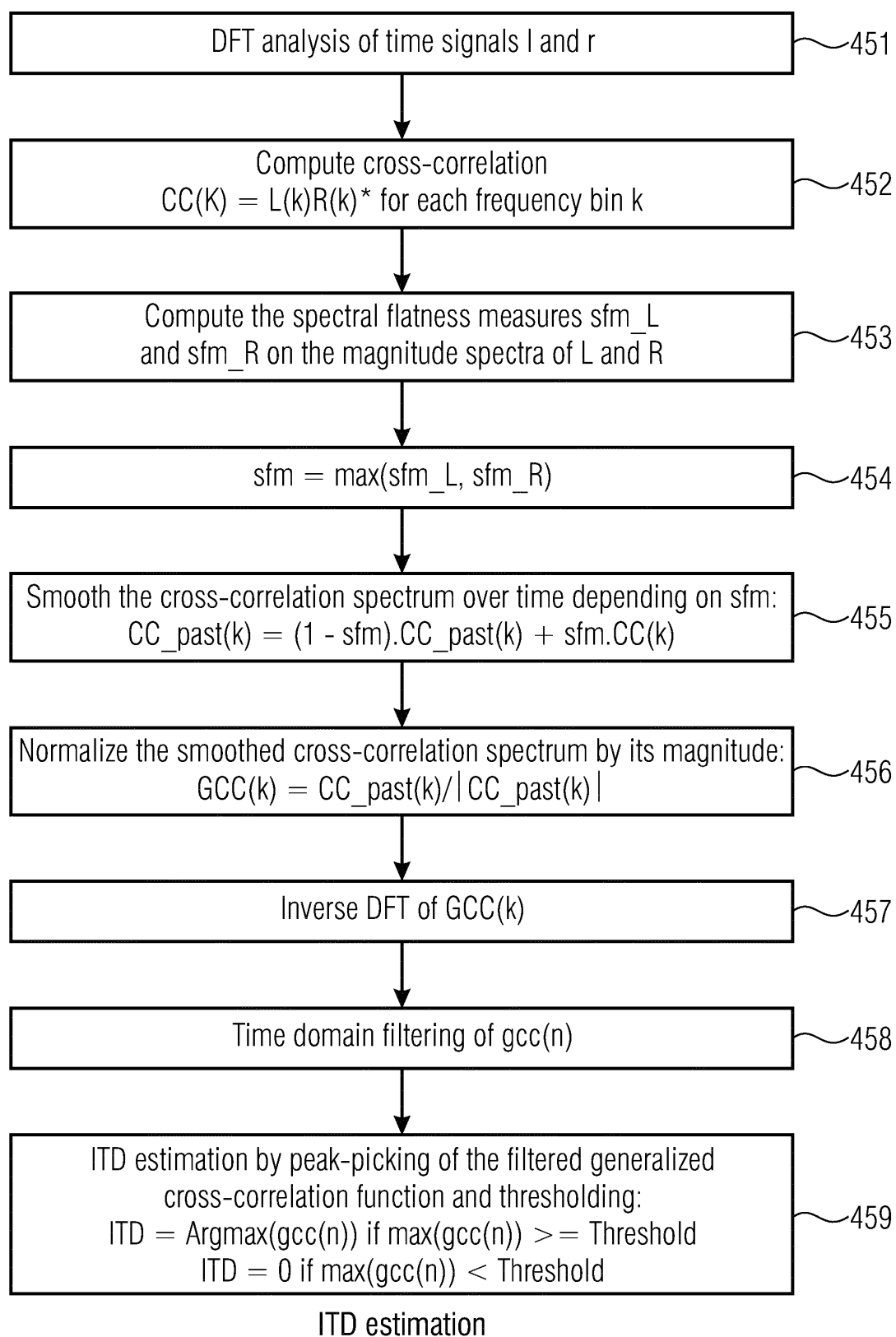


Fig. 4e

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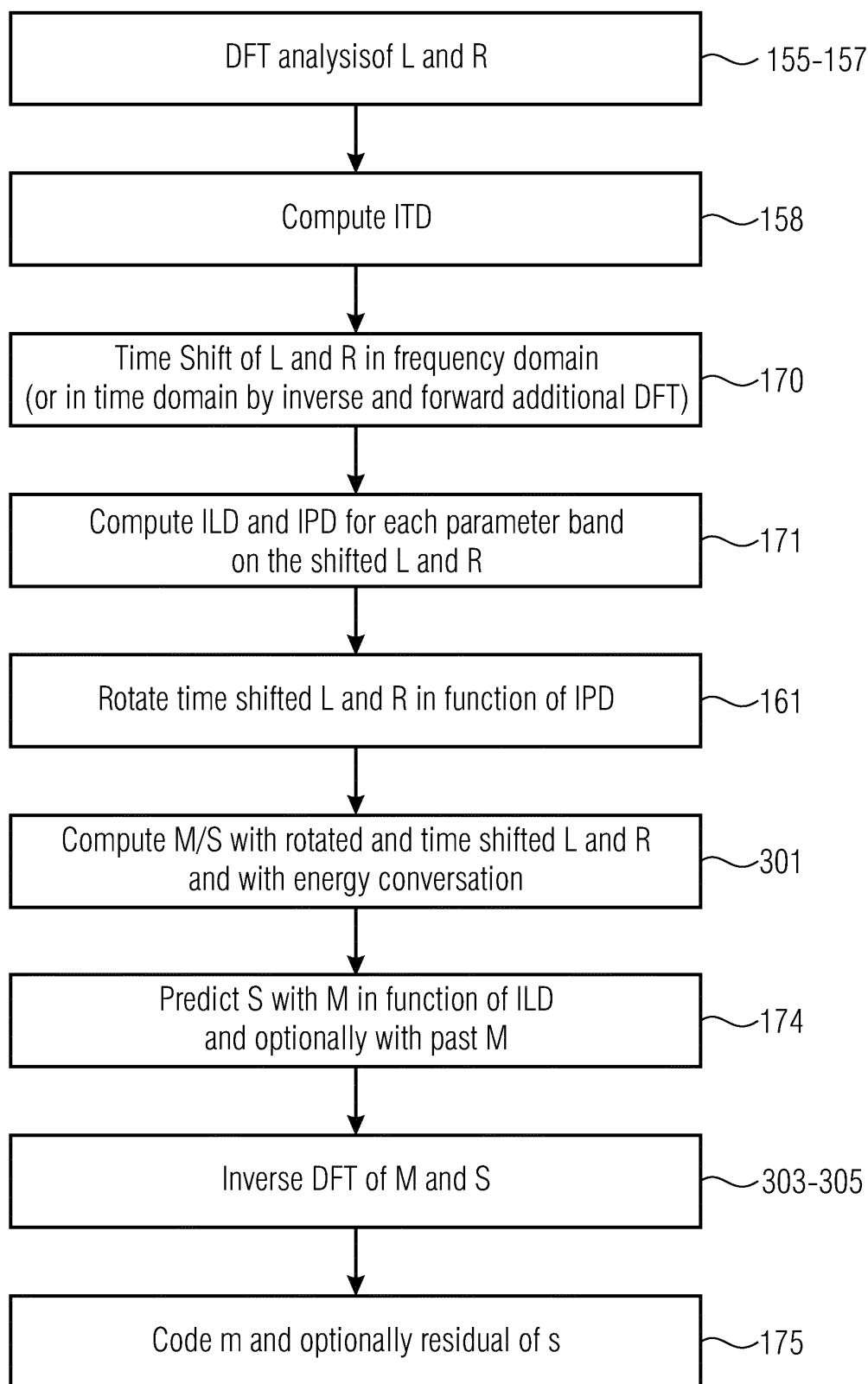


Fig. 5

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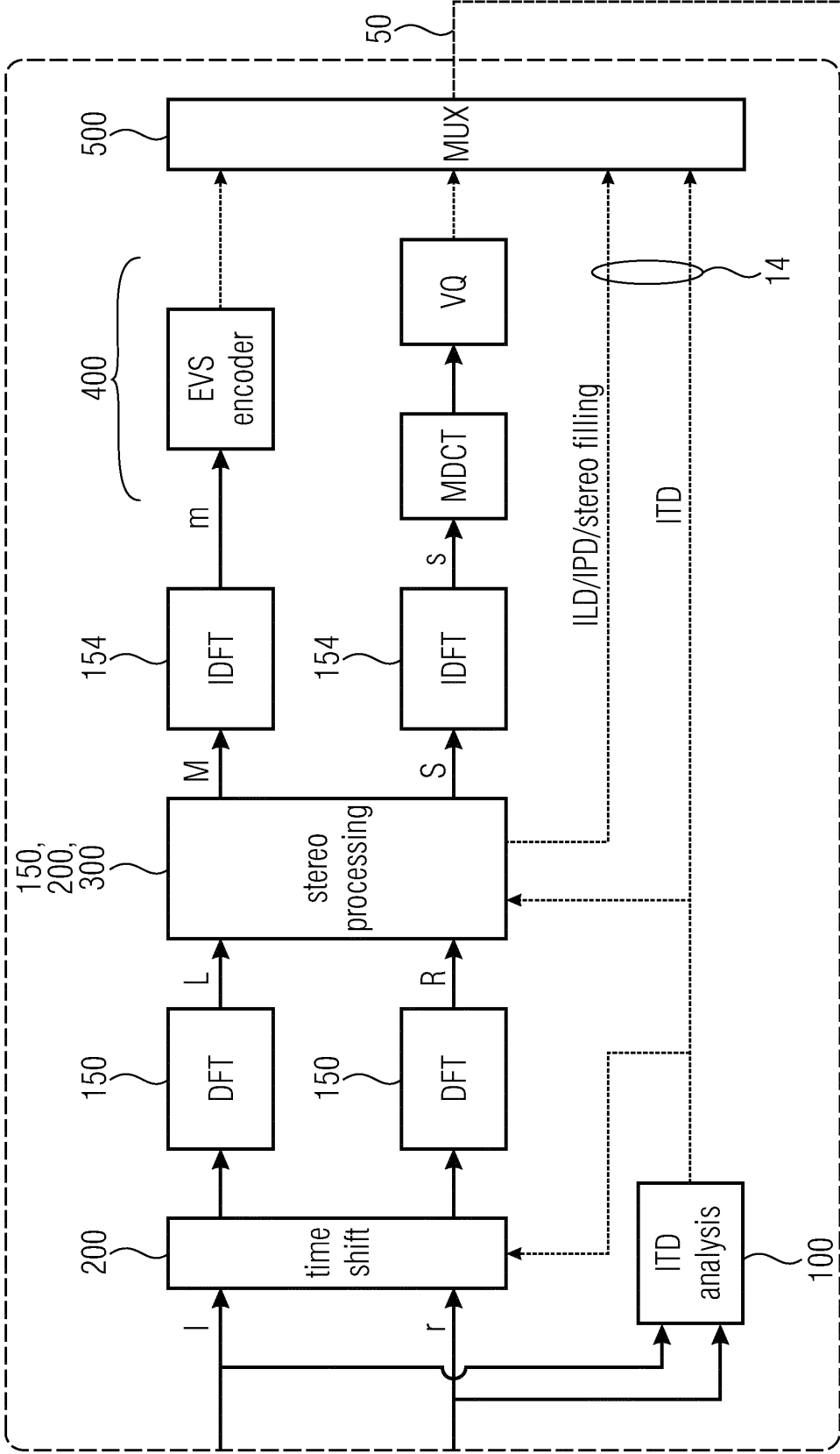


Fig. 6a

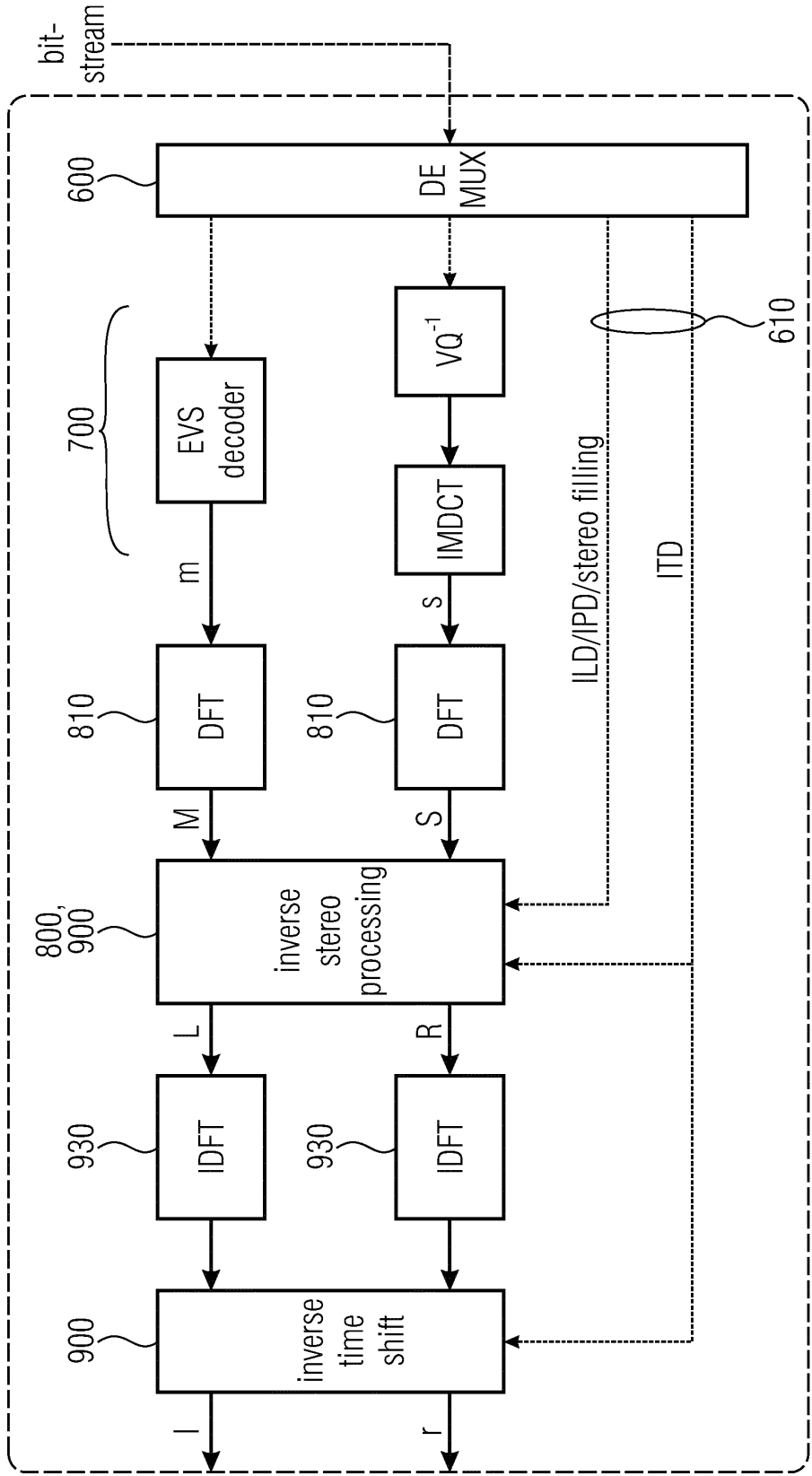


Fig. 6b

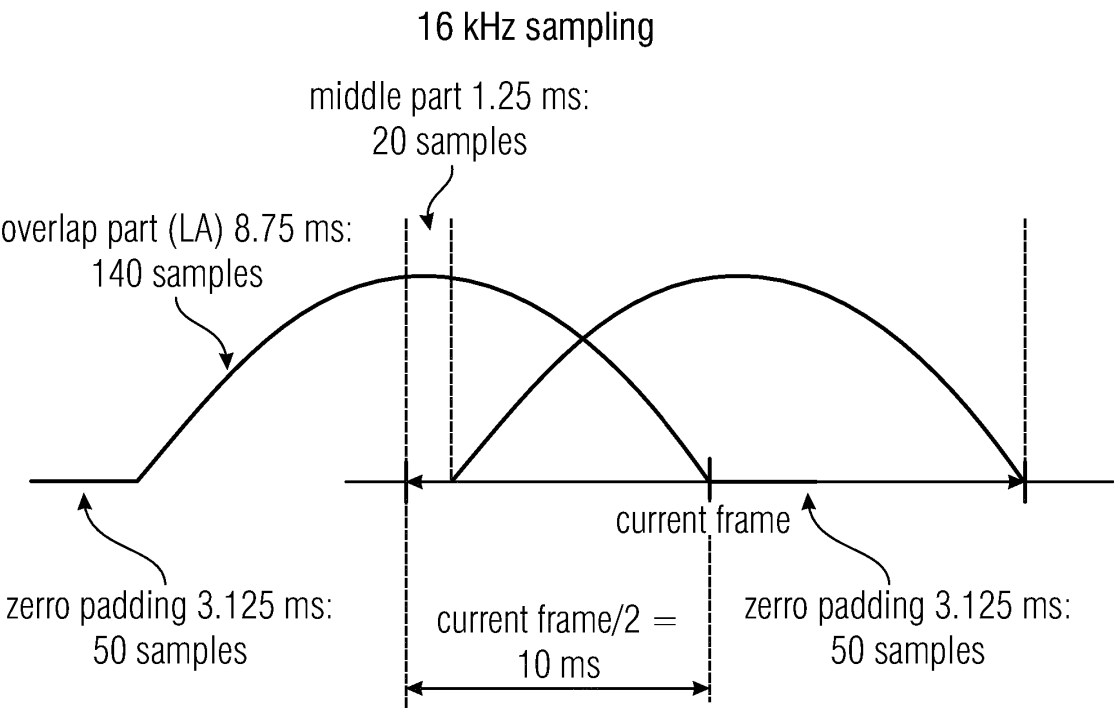


Fig. 7

| parameters     | bits/band | number of bands | bit-rate  |
|----------------|-----------|-----------------|-----------|
| ILD            | 5         | all 12 bands    | 3.00 kbps |
| IPD            | 3         | up to 2.5 kHz   | 1.05 kbps |
| ITD            | 8         | whole spectrum  | 0.6 kbps  |
| stereo filling | 3         | from 1 kHz      | 0.9 kbps  |
| total          |           |                 | -5 kbps   |

Fig. 8

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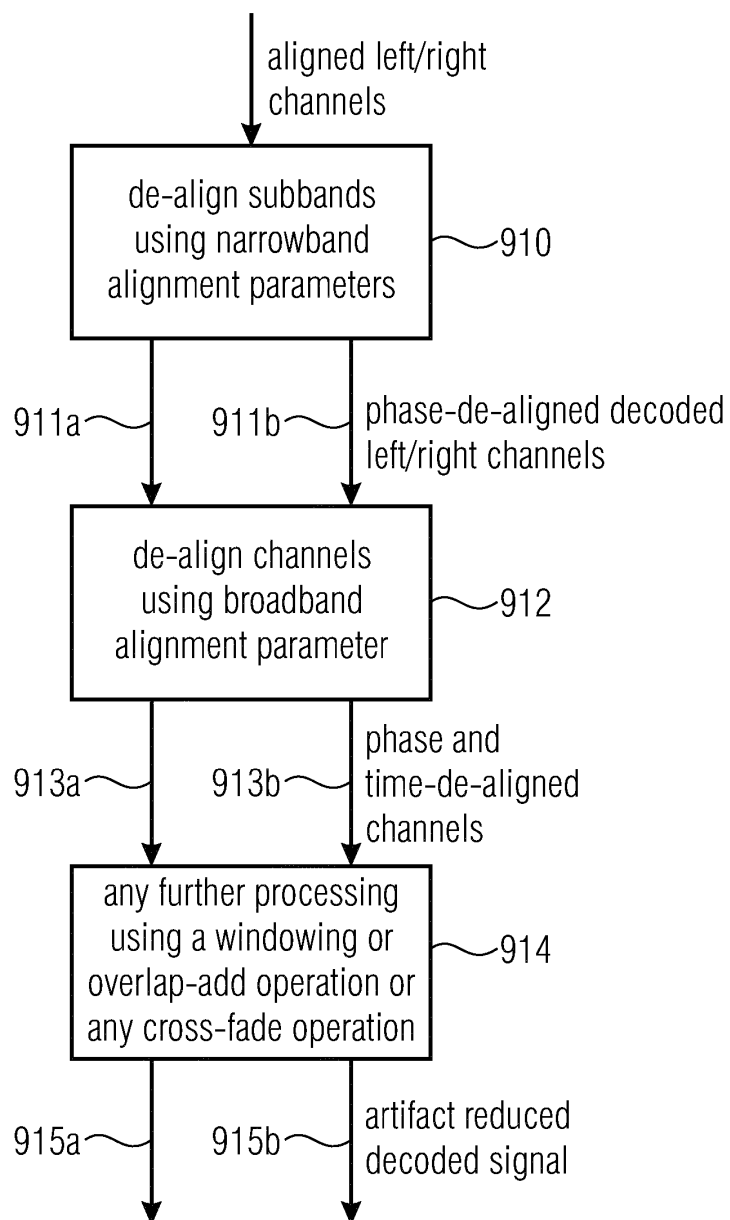


Fig. 9a

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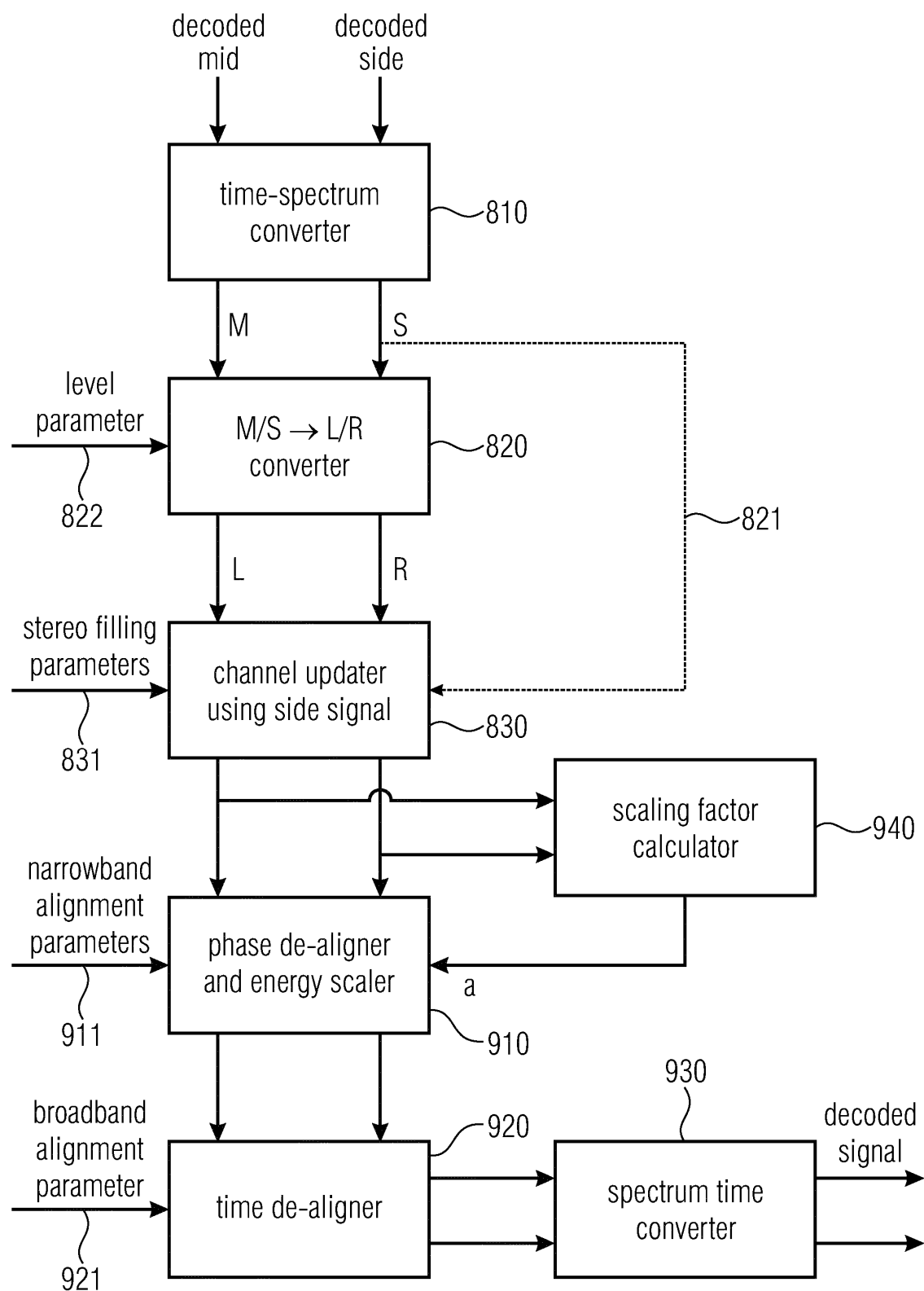


Fig. 9b

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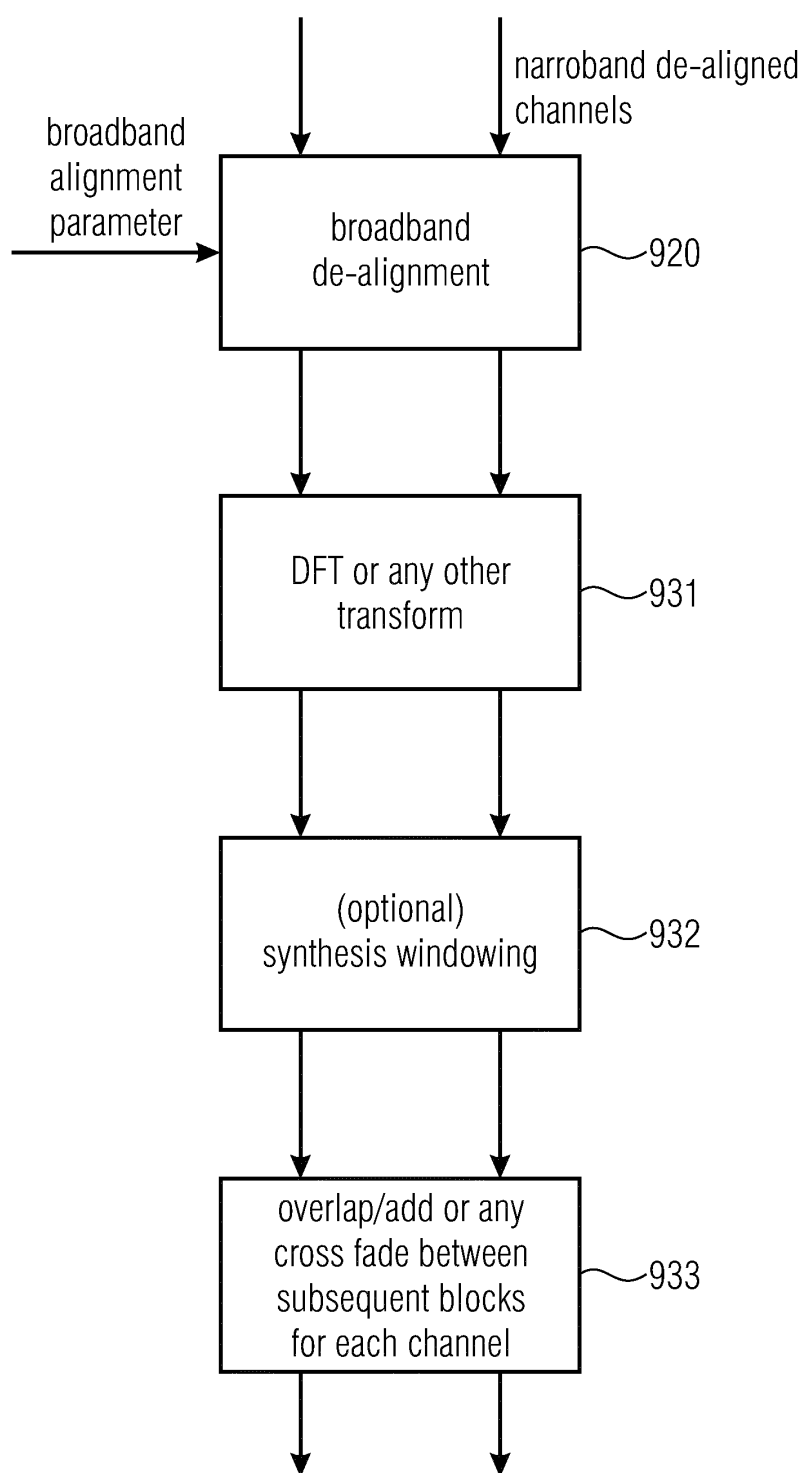


Fig. 9c

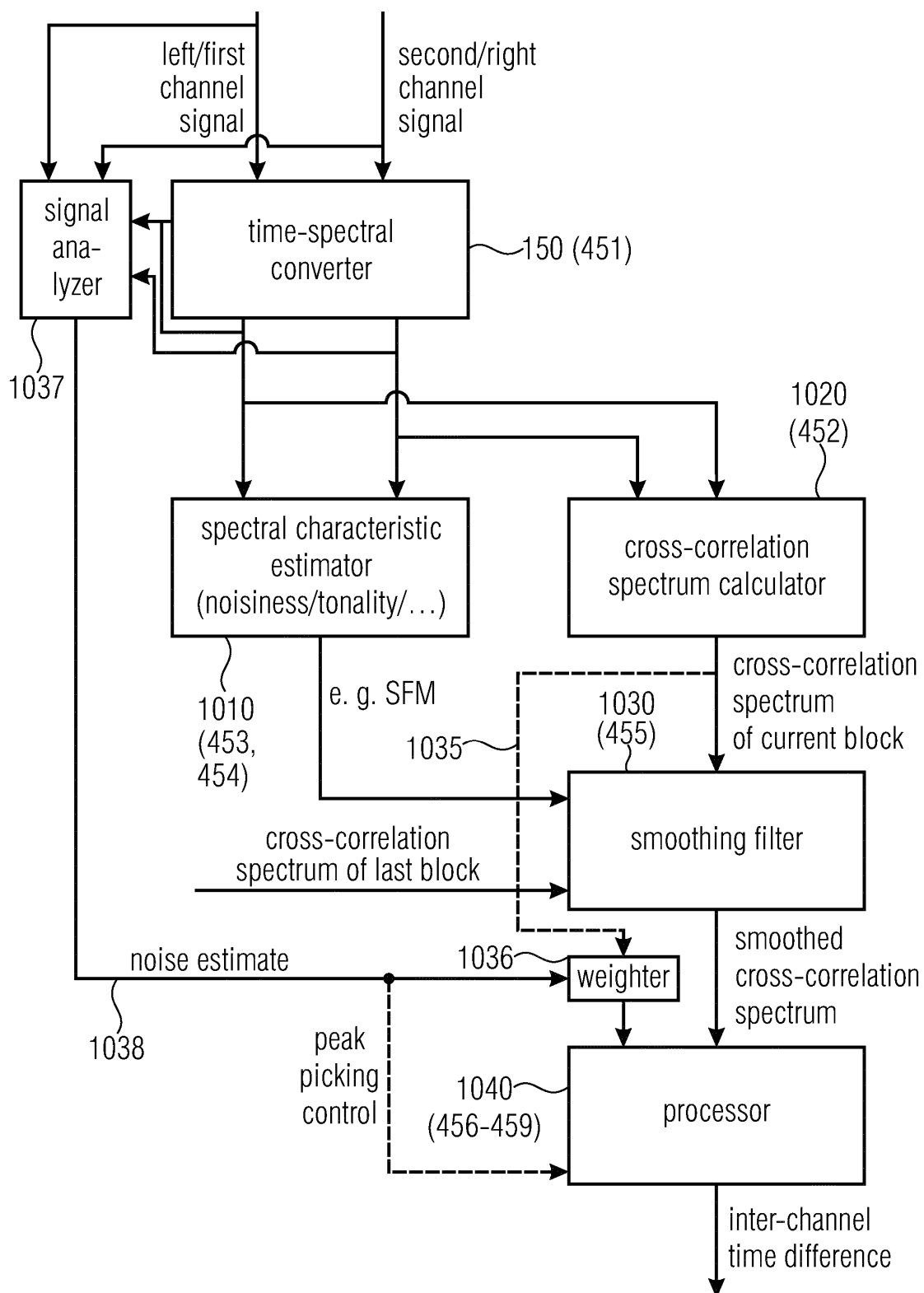
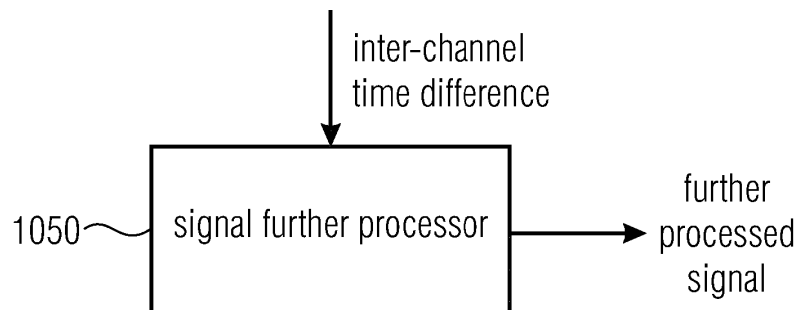


Fig. 10a

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- storage/transmission of parametric data
- stereo/multi-channel processing/encoding
- time alignment of two channels
- time difference of arrival estimation for determination of speaker position in room with two microphones and known microphone setup
- beamforming
- spatial filtering
- foreground/background decomposition
- location of sound source  
e. g. by acoustic triangulation based on time differences of two/three signals

Fig. 10b

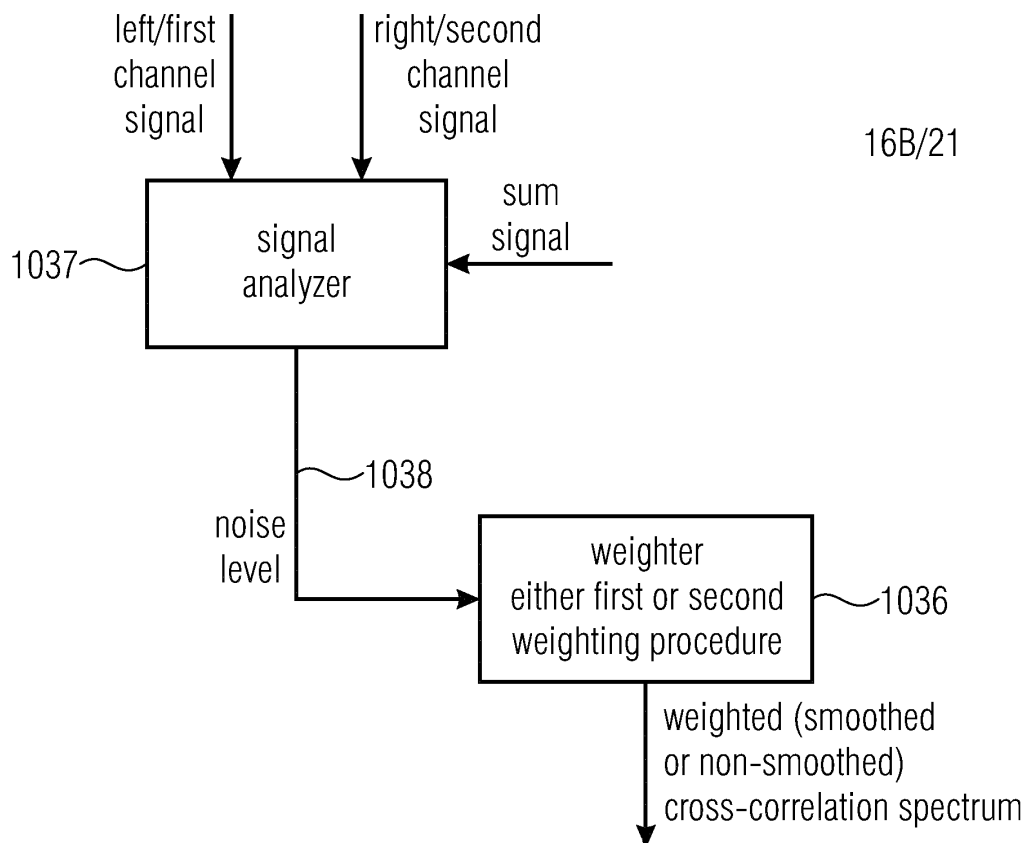


Fig. 10c

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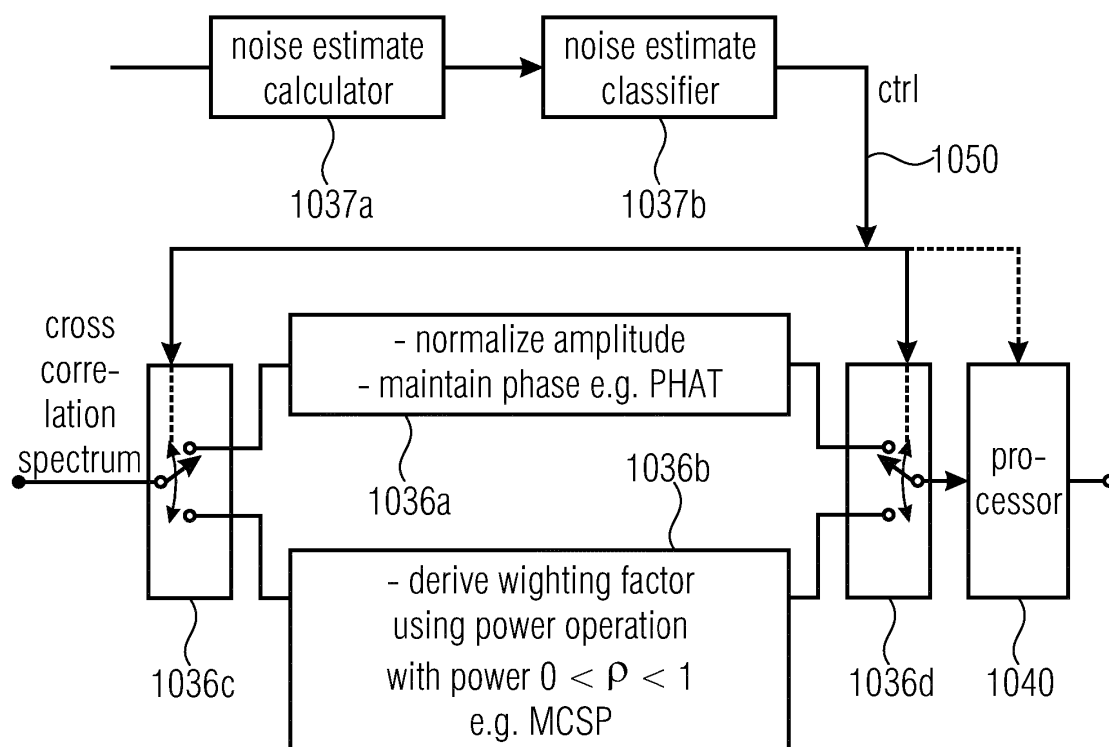


Fig. 10d

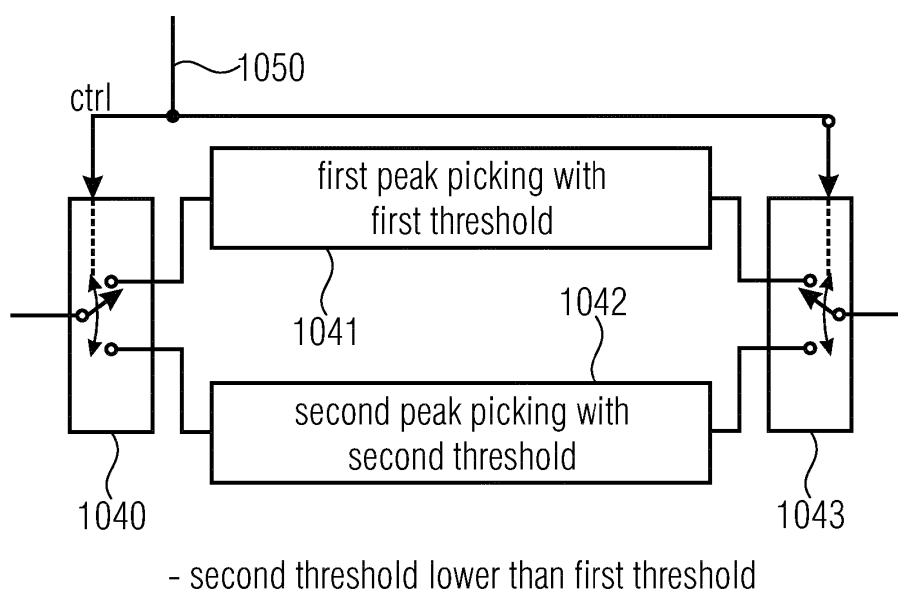
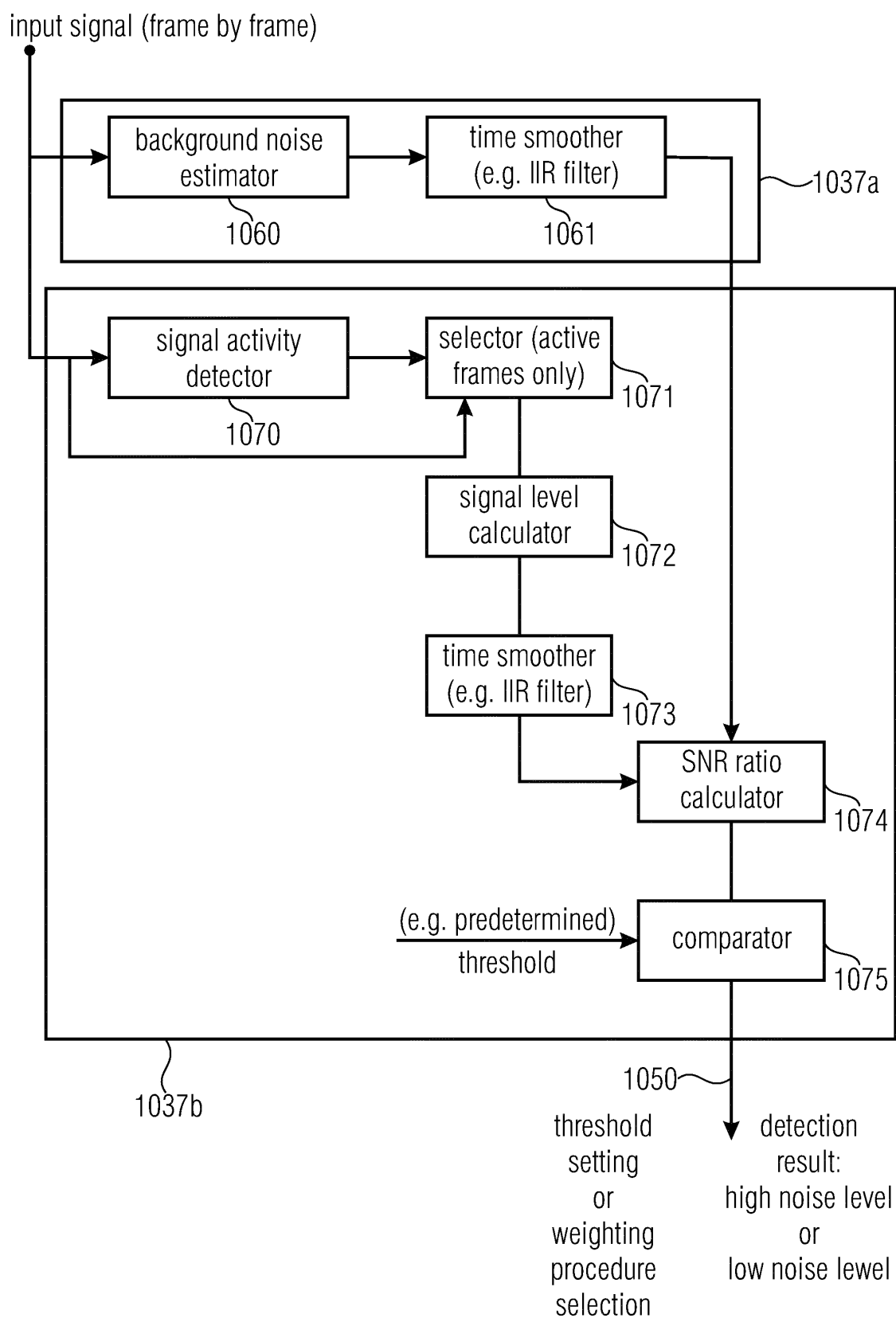


Fig. 10e



**Fig. 10f**  
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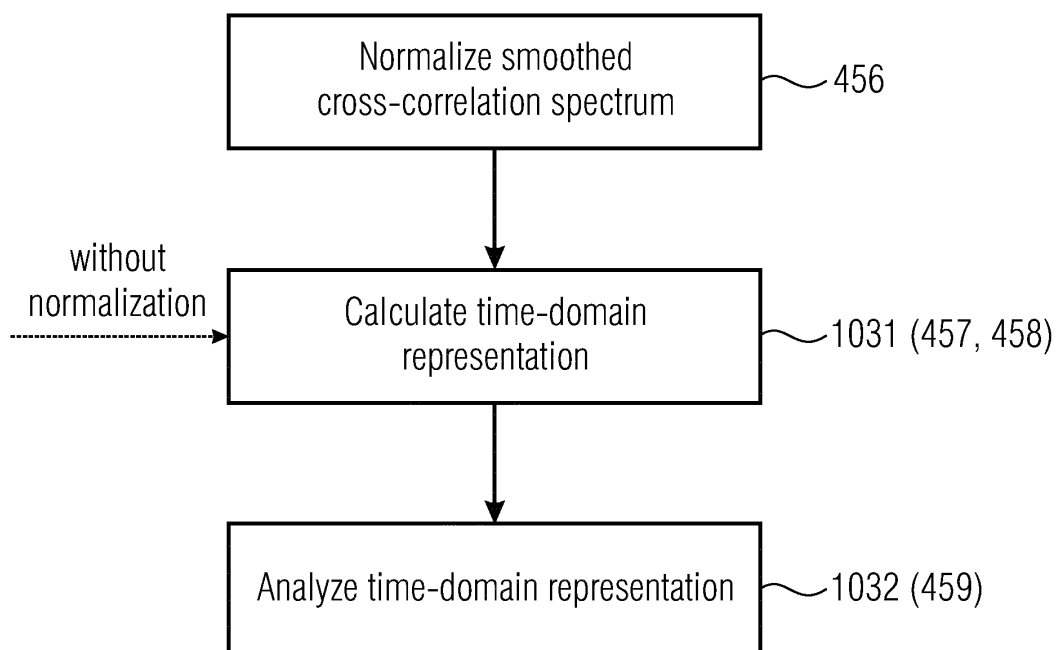


Fig. 11a

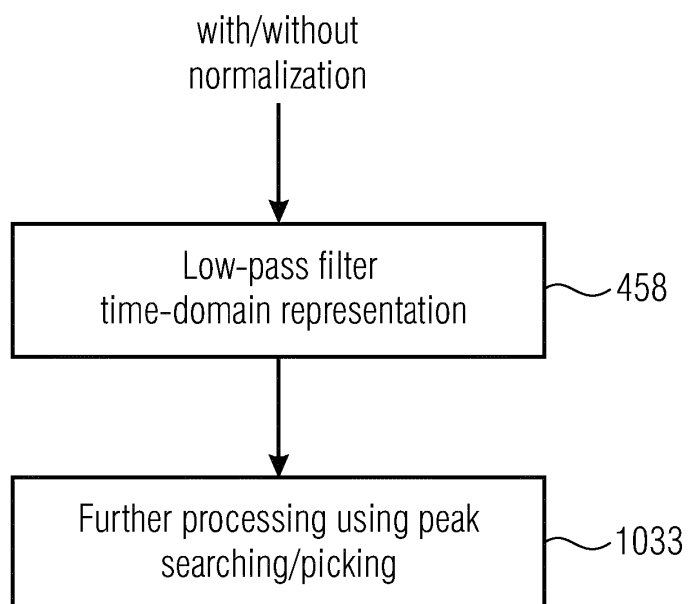


Fig. 11b

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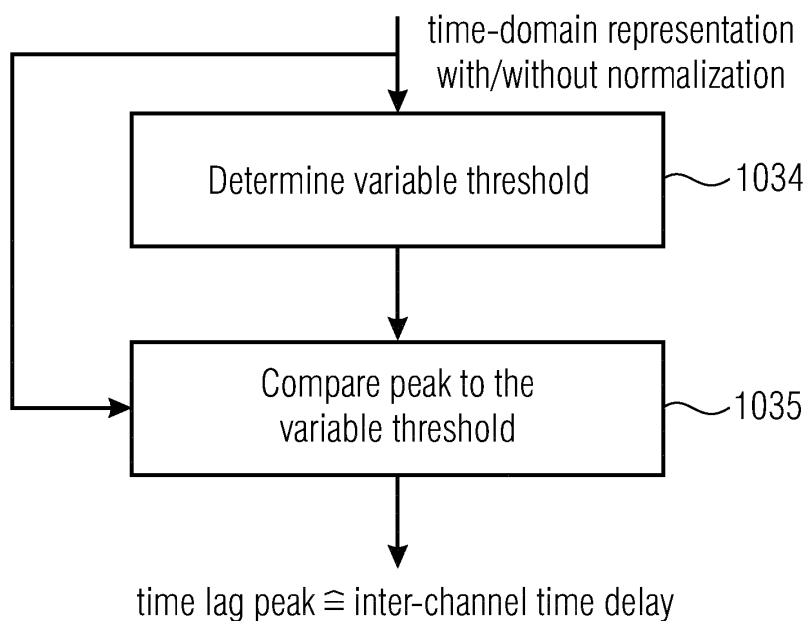


Fig. 11c

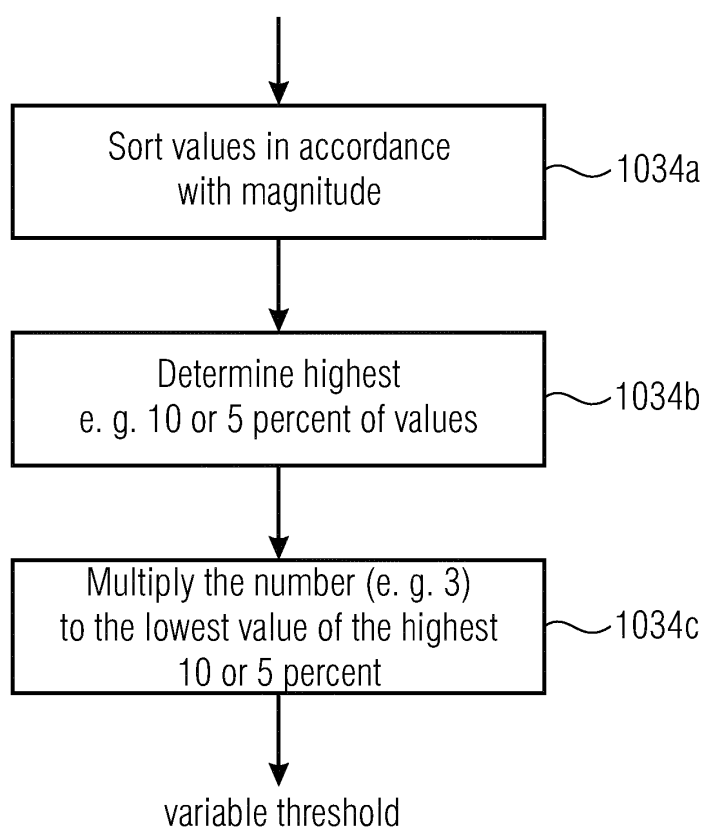


Fig. 11d

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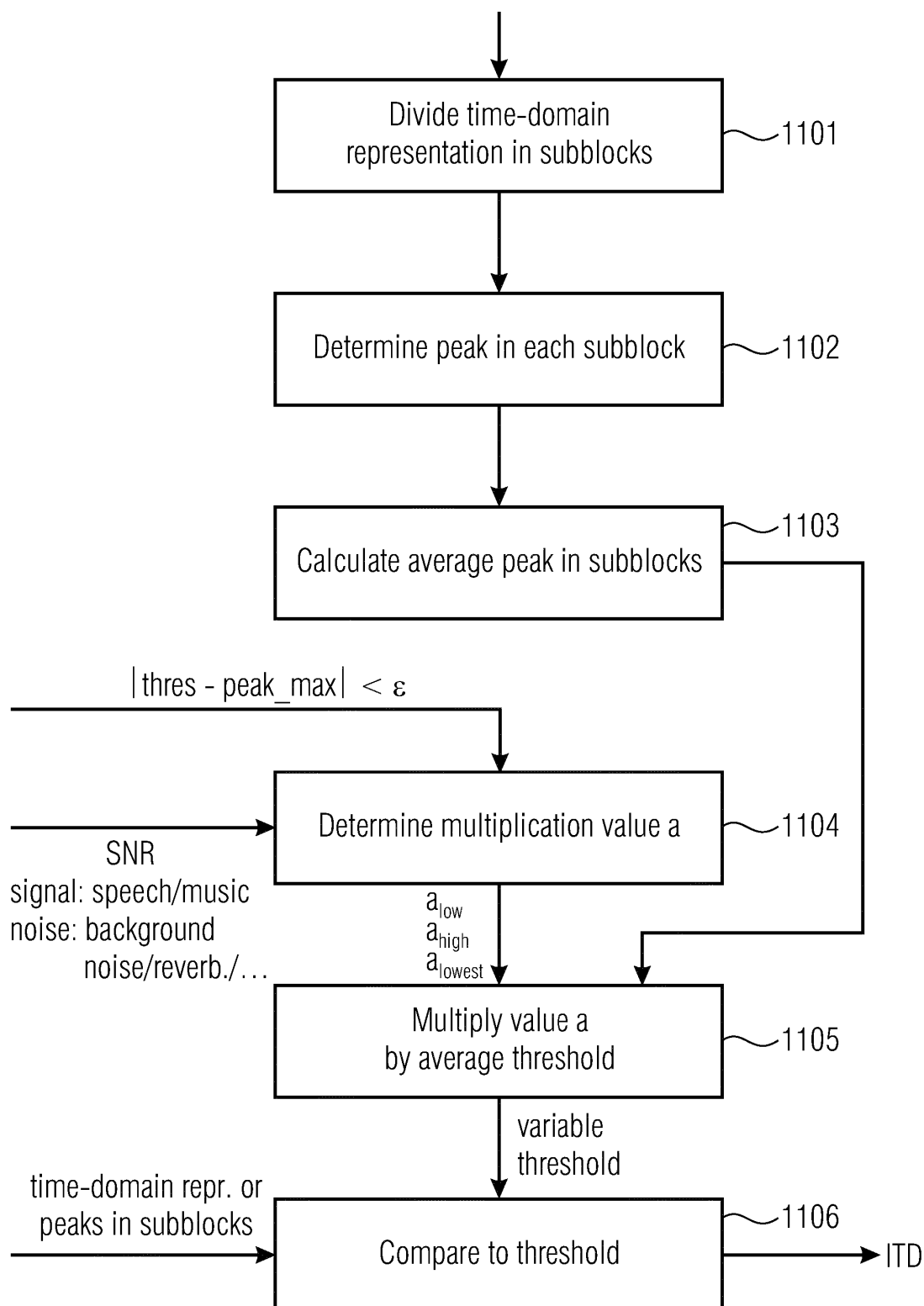


Fig. 11e

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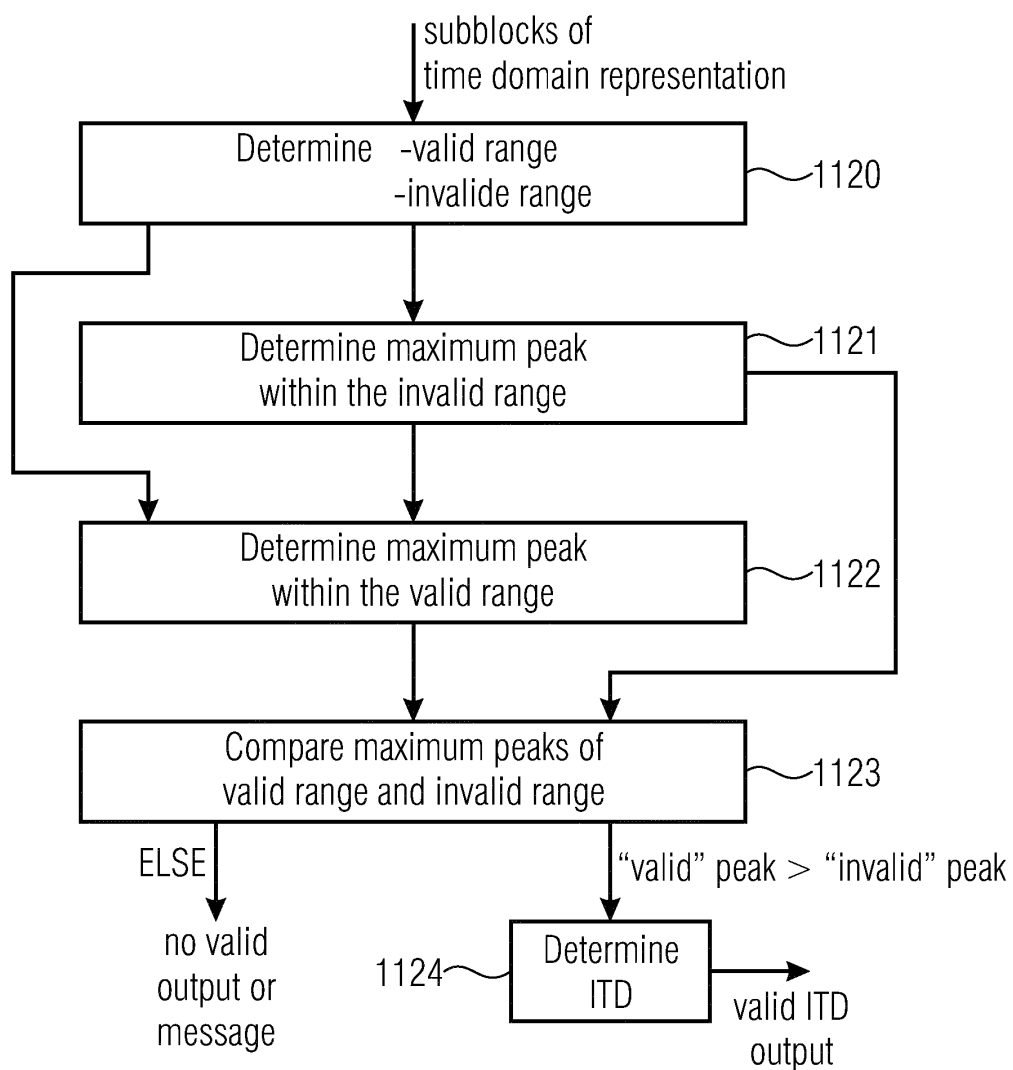


Fig. 11f

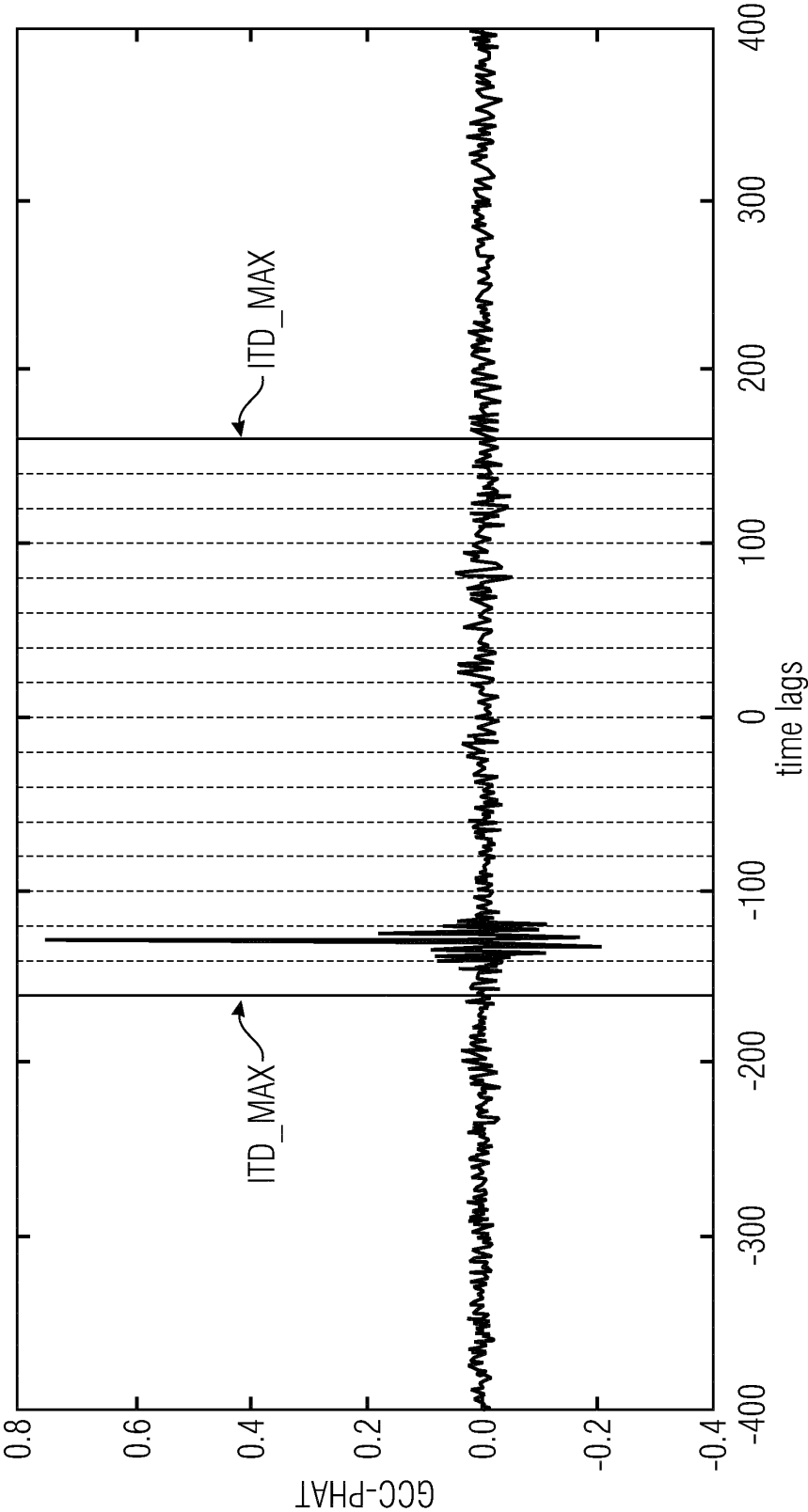


Fig. 12

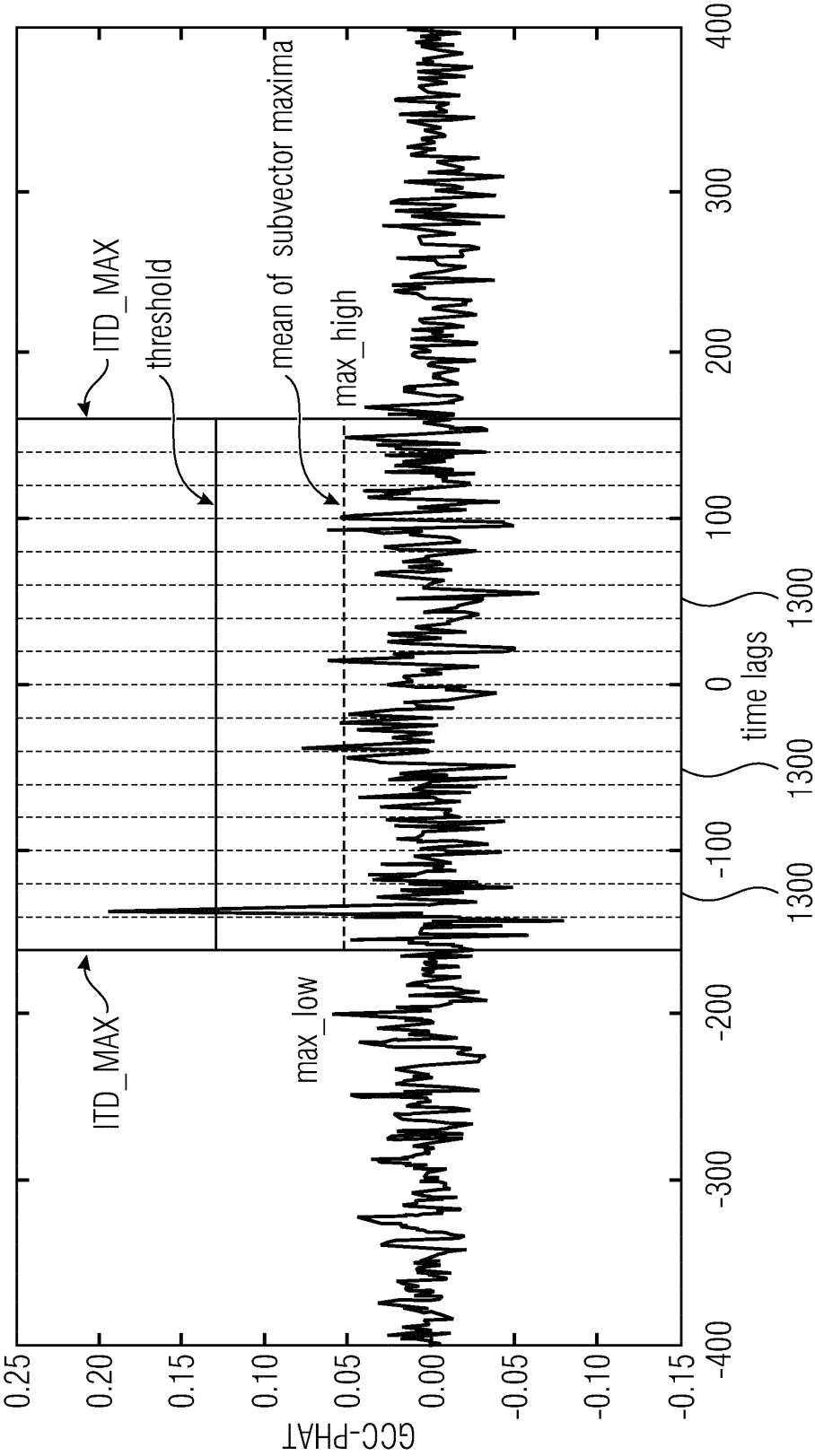


Fig. 13