

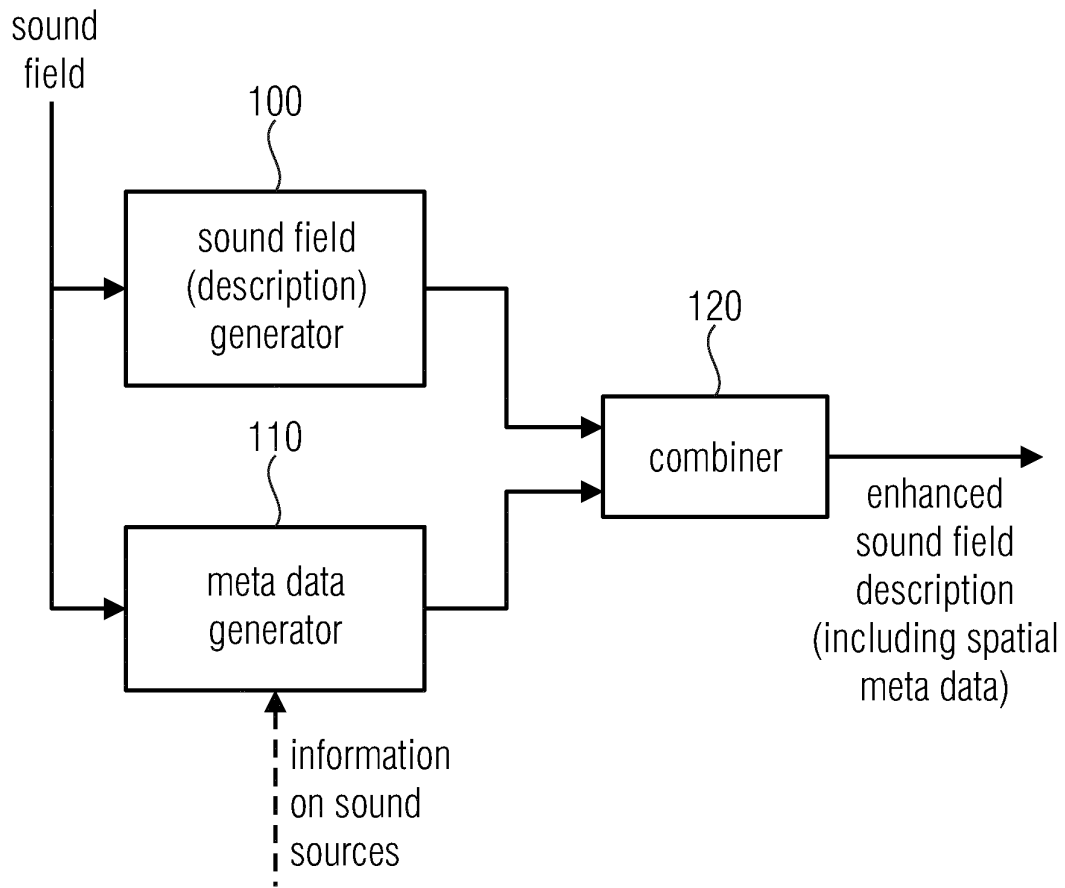


Fig. 1a

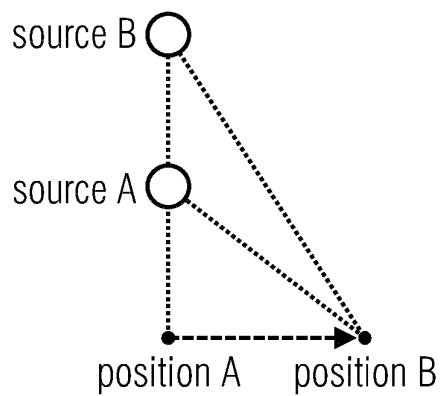


Fig. 1b

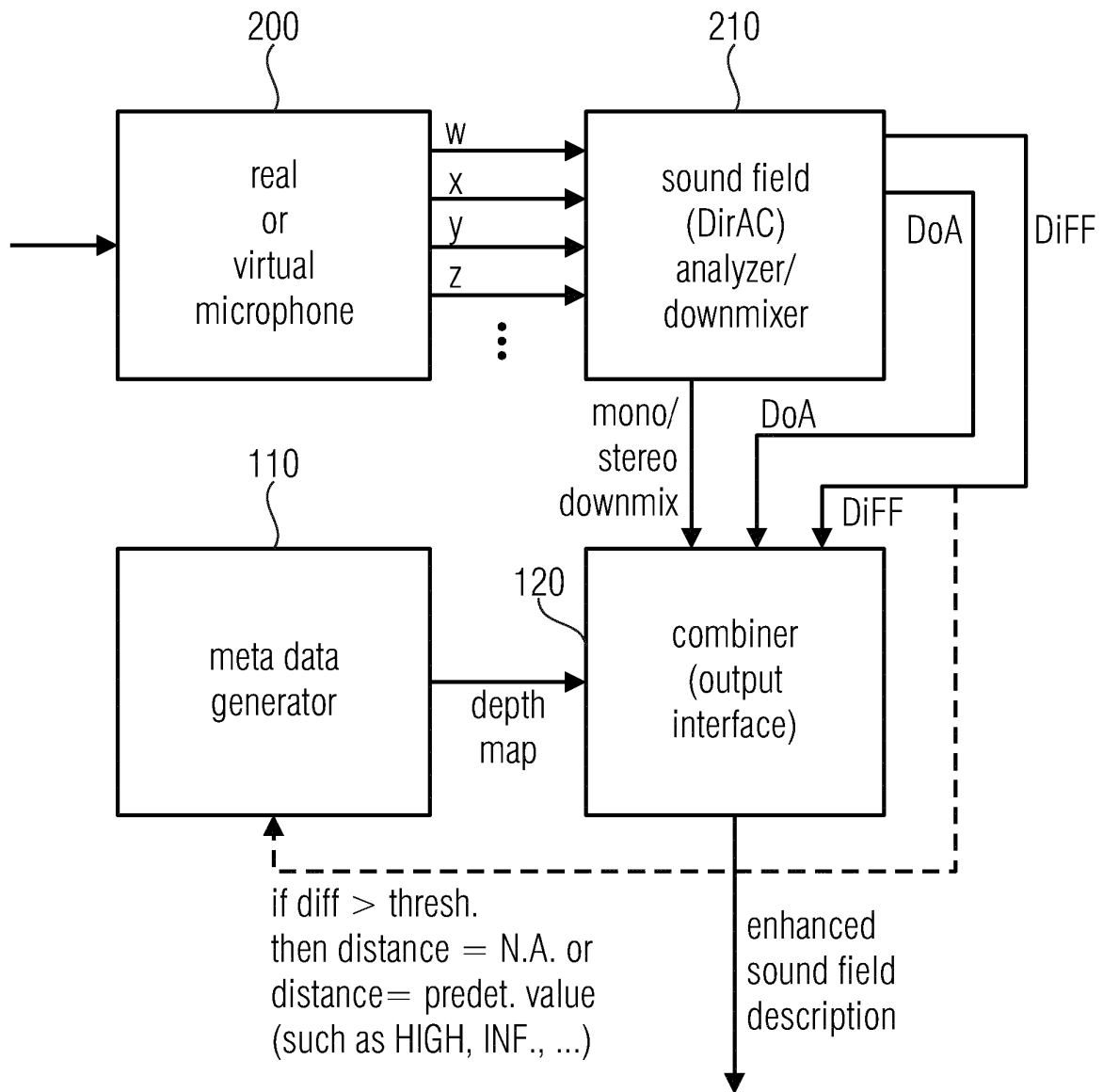


Fig. 2

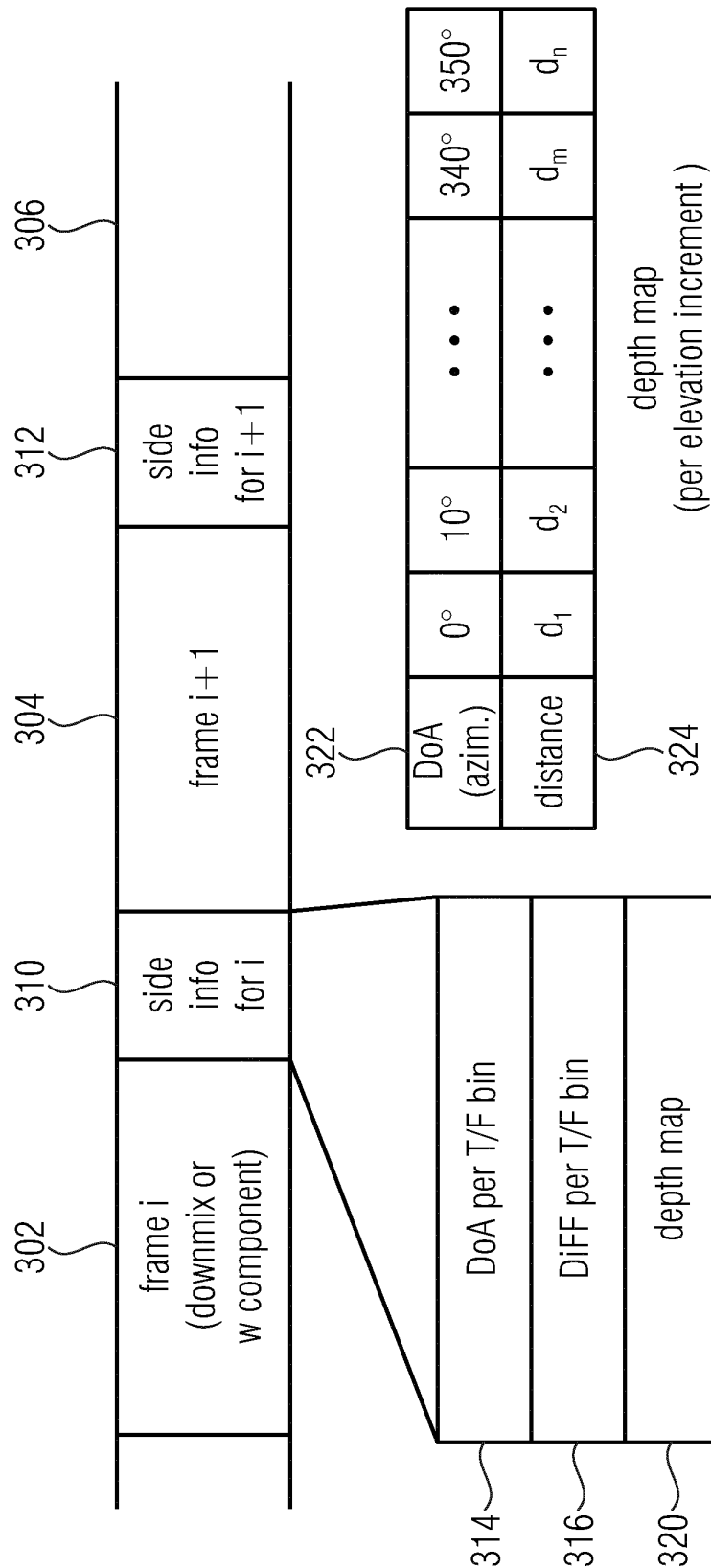


Fig. 3a

|  |                                                                                     |                                  |                                      |
|--|-------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|
|  | 326                                                                                 | 320a                             | 320b                                 |
|  | B-format or higher-order<br>representation for time periods<br>e.g. $i$ and $i + 1$ | depth map per<br>time period $i$ | depth map<br>for time period $i + 1$ |

Fig. 3b

|  |                                                                |                           |     |                             |                                                                    |
|--|----------------------------------------------------------------|---------------------------|-----|-----------------------------|--------------------------------------------------------------------|
|  | B-format or higher-order<br>representation for time period $i$ |                           |     |                             | B-format or higher-order<br>representation for time period $i + 1$ |
|  | depth<br>map<br>$i^{(1)}$                                      | depth<br>map<br>$i^{(2)}$ | ... | depth<br>map<br>$i^{(N_i)}$ |                                                                    |

Fig. 3c

|  |                                                                   |                                                                       |  |
|--|-------------------------------------------------------------------|-----------------------------------------------------------------------|--|
|  | B-format or higher-order<br>representation for<br>time period $i$ | B-format or higher-order<br>representation for<br>time period $i + 1$ |  |
|  | depth map<br>for time period $i$                                  | depth map<br>for time period $i + 1$                                  |  |

Fig. 3d

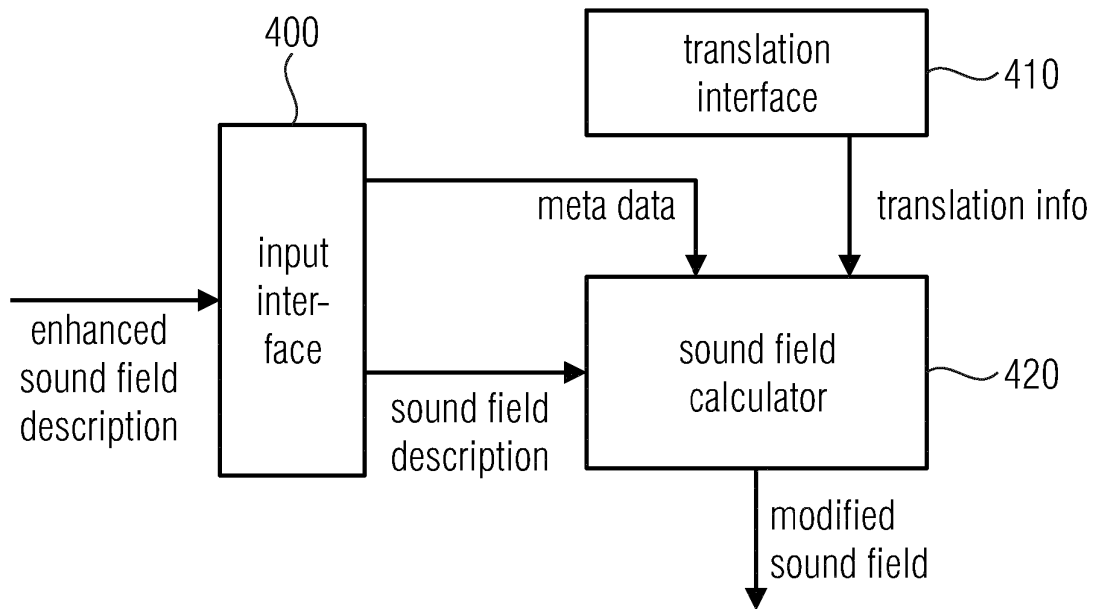


Fig. 4a

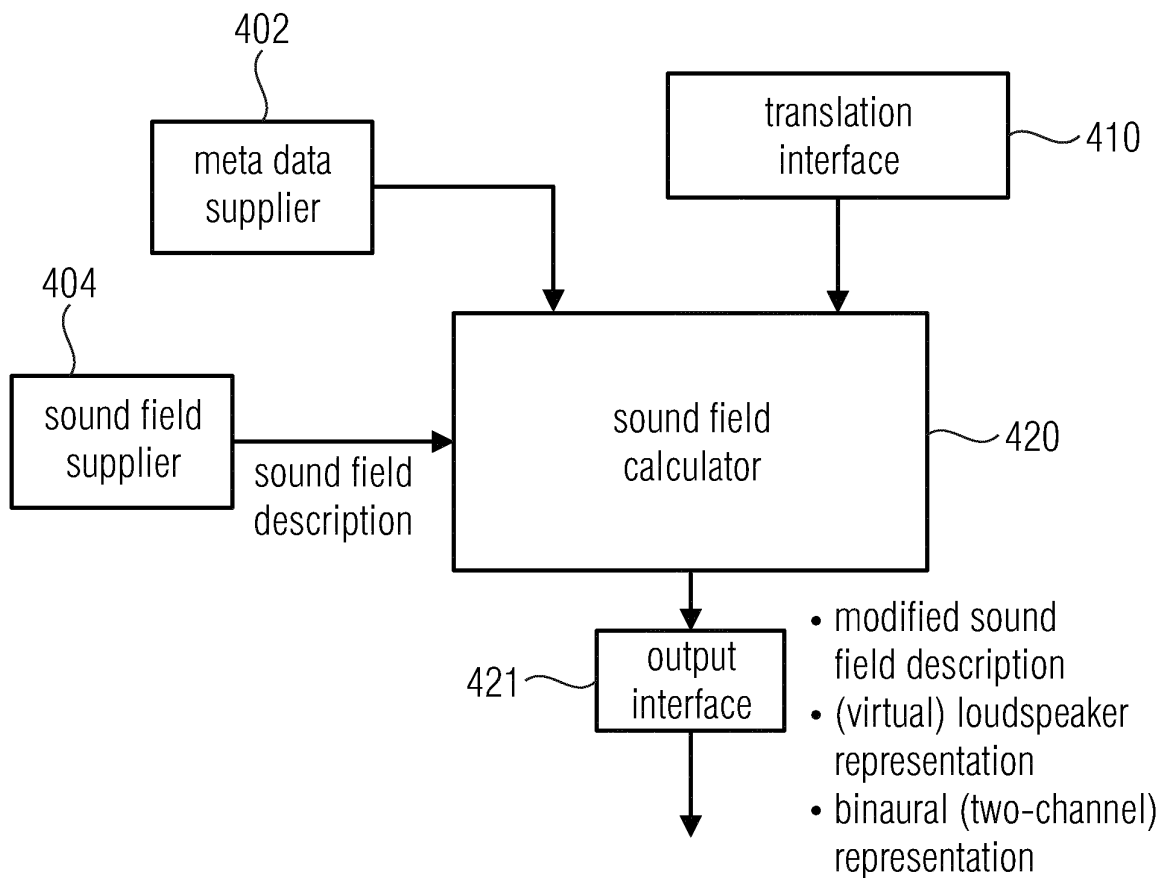


Fig. 4b

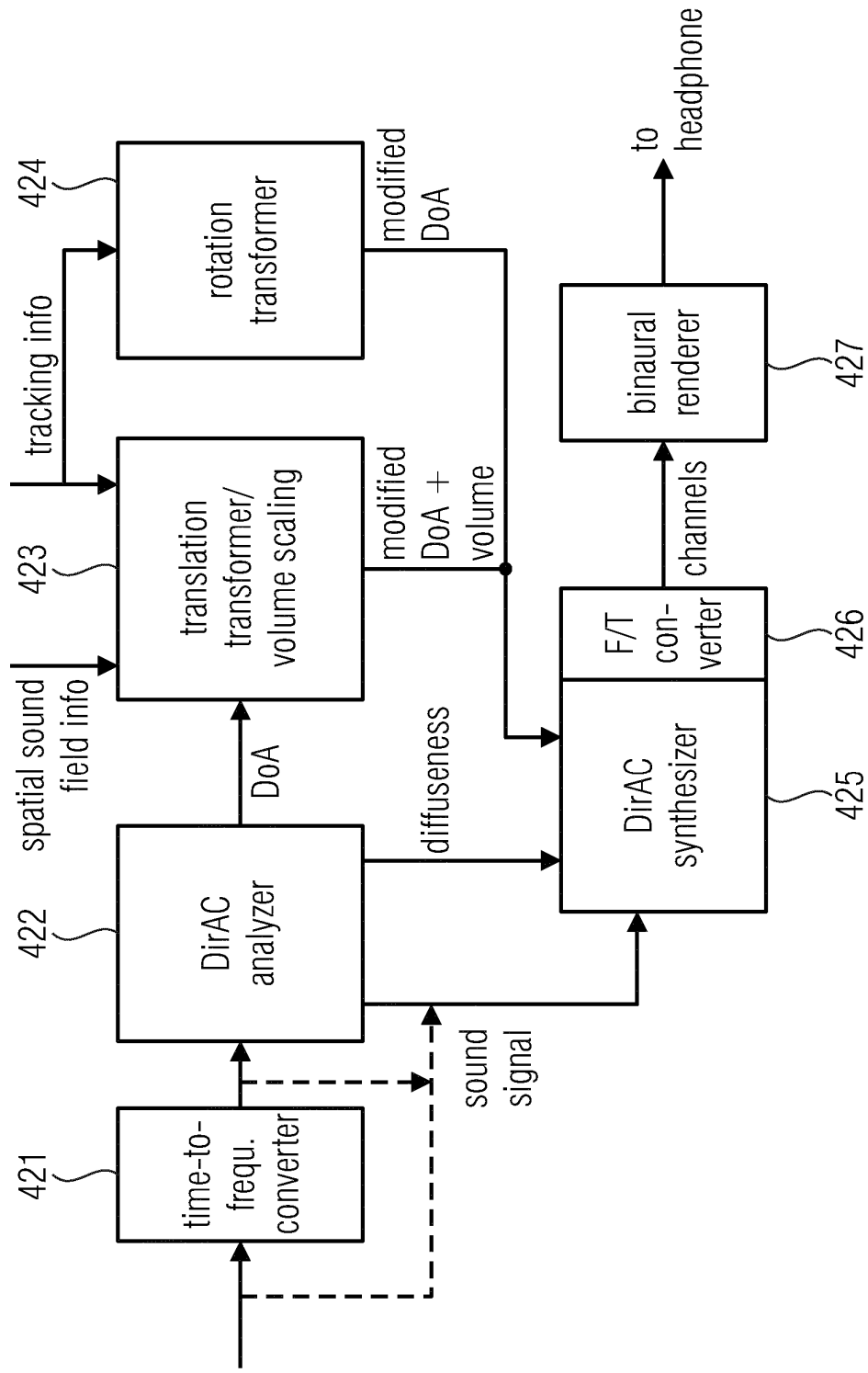
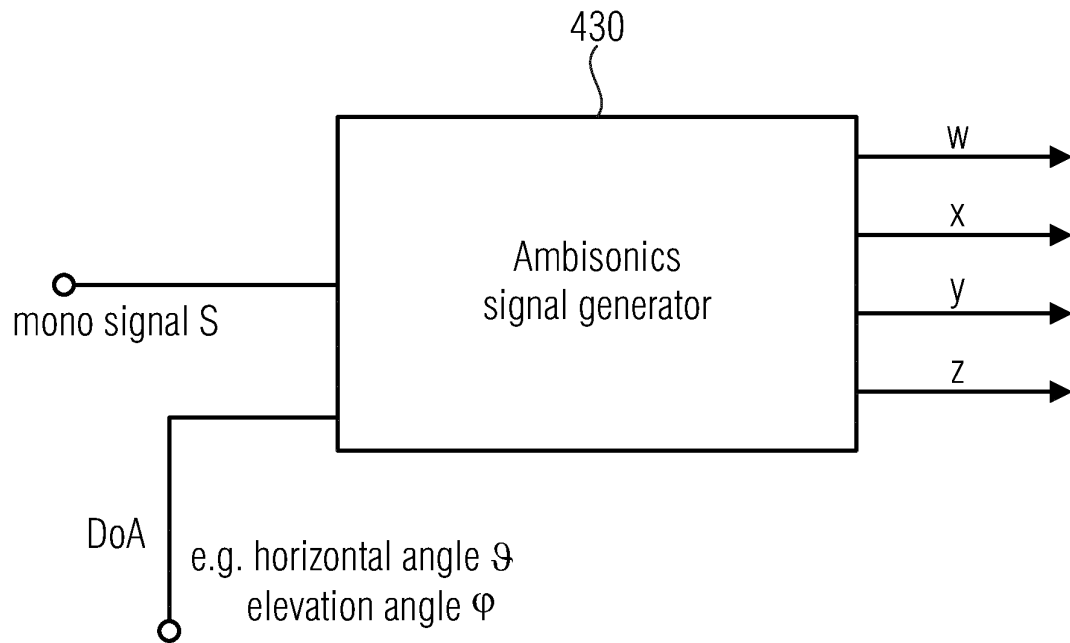


Fig. 4C



omnidirectional comp  $W = S \cdot \frac{1}{\sqrt{2}}$

directional components  $\left\{ \begin{array}{l} X = S \cdot \cos \vartheta \cos \varphi \\ Y = S \cdot \sin \vartheta \cos \varphi \\ Z = S \cdot \sin \varphi \end{array} \right.$

Fig. 4d

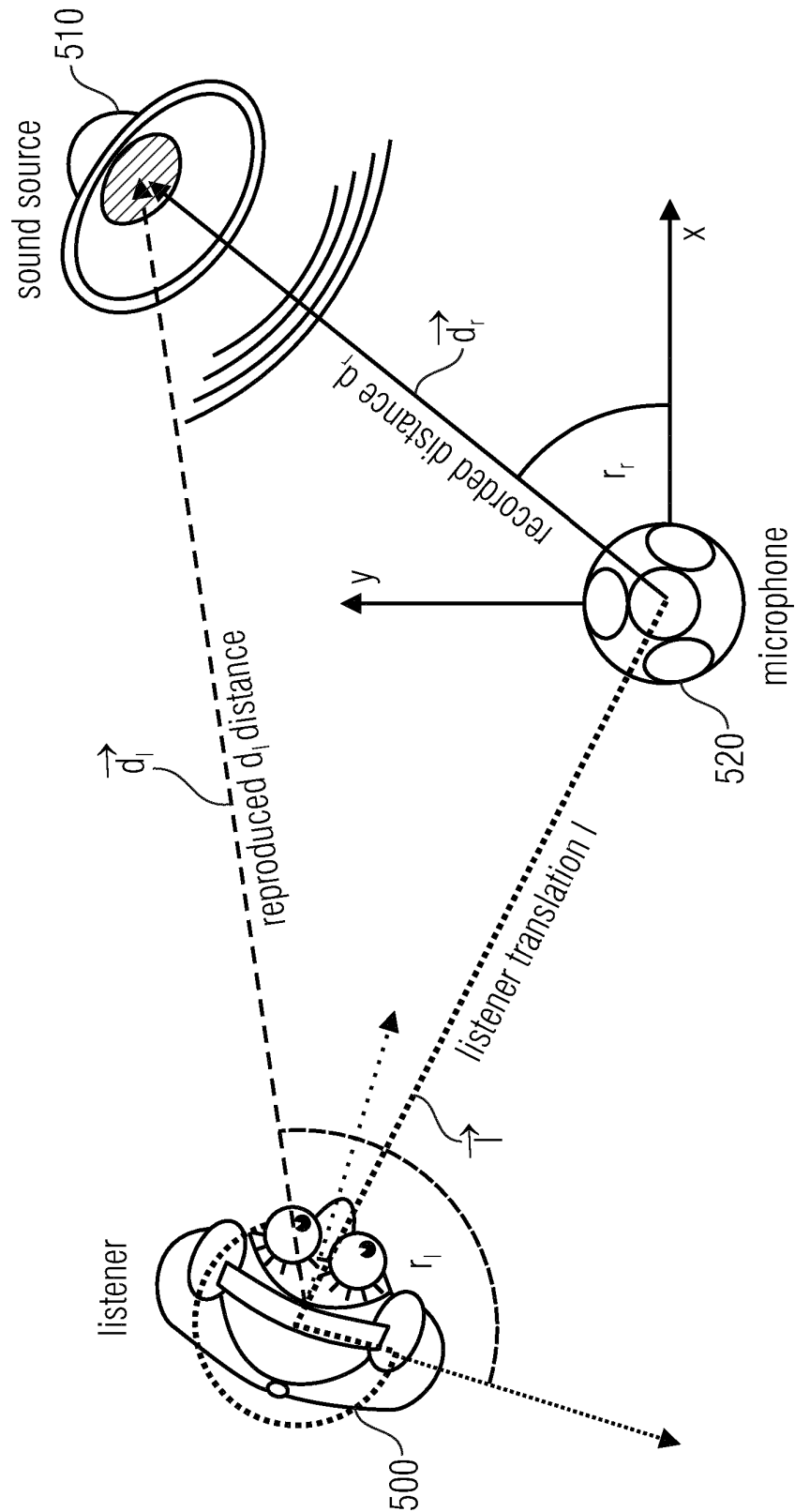


Fig. 5

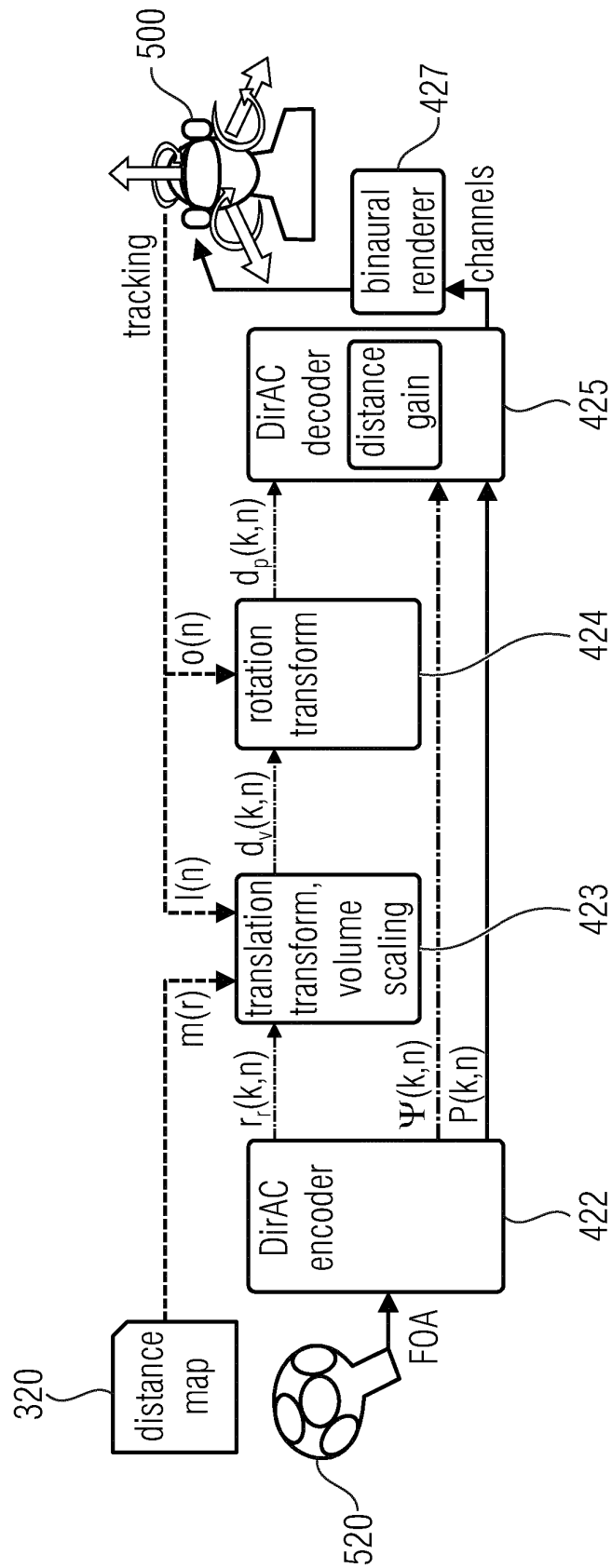


Fig. 6

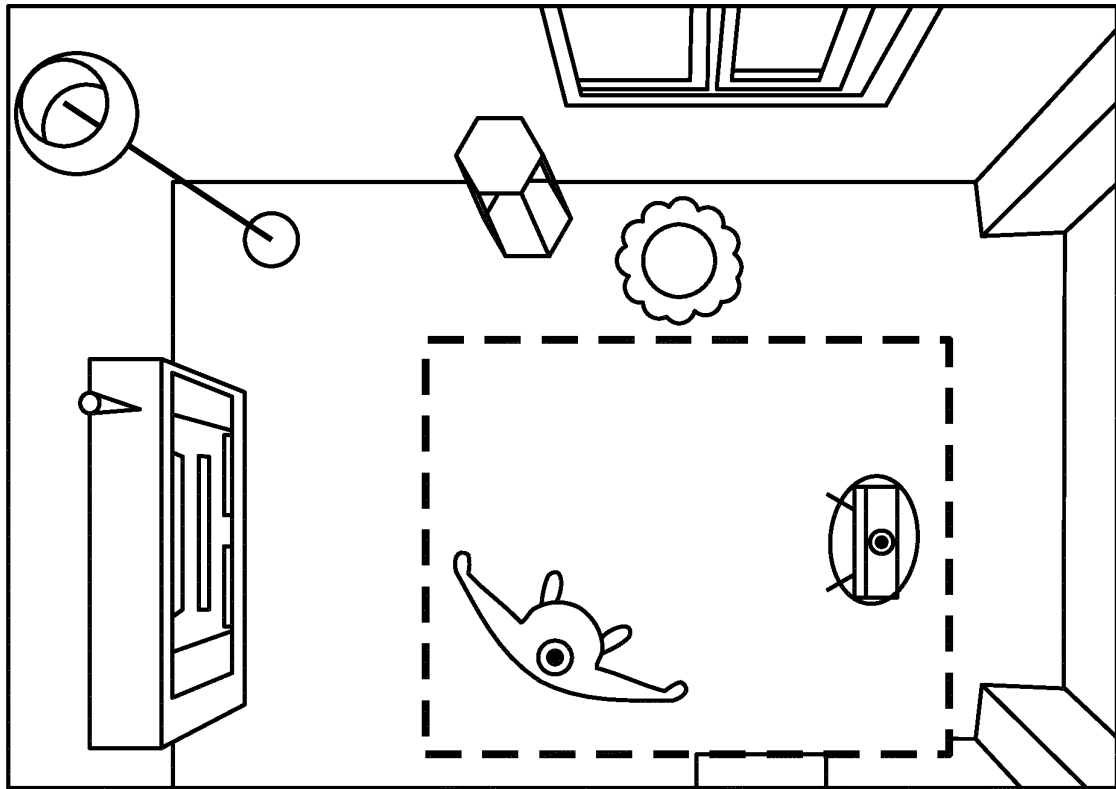


Fig. 7

| MUSHRA-VR                                                                        |     | MENU |     |     |     |   |
|----------------------------------------------------------------------------------|-----|------|-----|-----|-----|---|
| Spatial reproduction                                                             |     |      |     |     |     |   |
| First order ambispheric content is reproduced using different rendering methods. |     |      |     |     |     |   |
| Walk around and judge the reproduction.                                          |     |      |     |     |     |   |
| Current item:                                                                    | 1   |      |     |     |     |   |
| Selected condition:                                                              | REF |      |     |     |     |   |
|                                                                                  |     | 100  | 100 | 100 | 100 |   |
|                                                                                  |     | REF  | A   | B   | C   | D |

Fig. 8

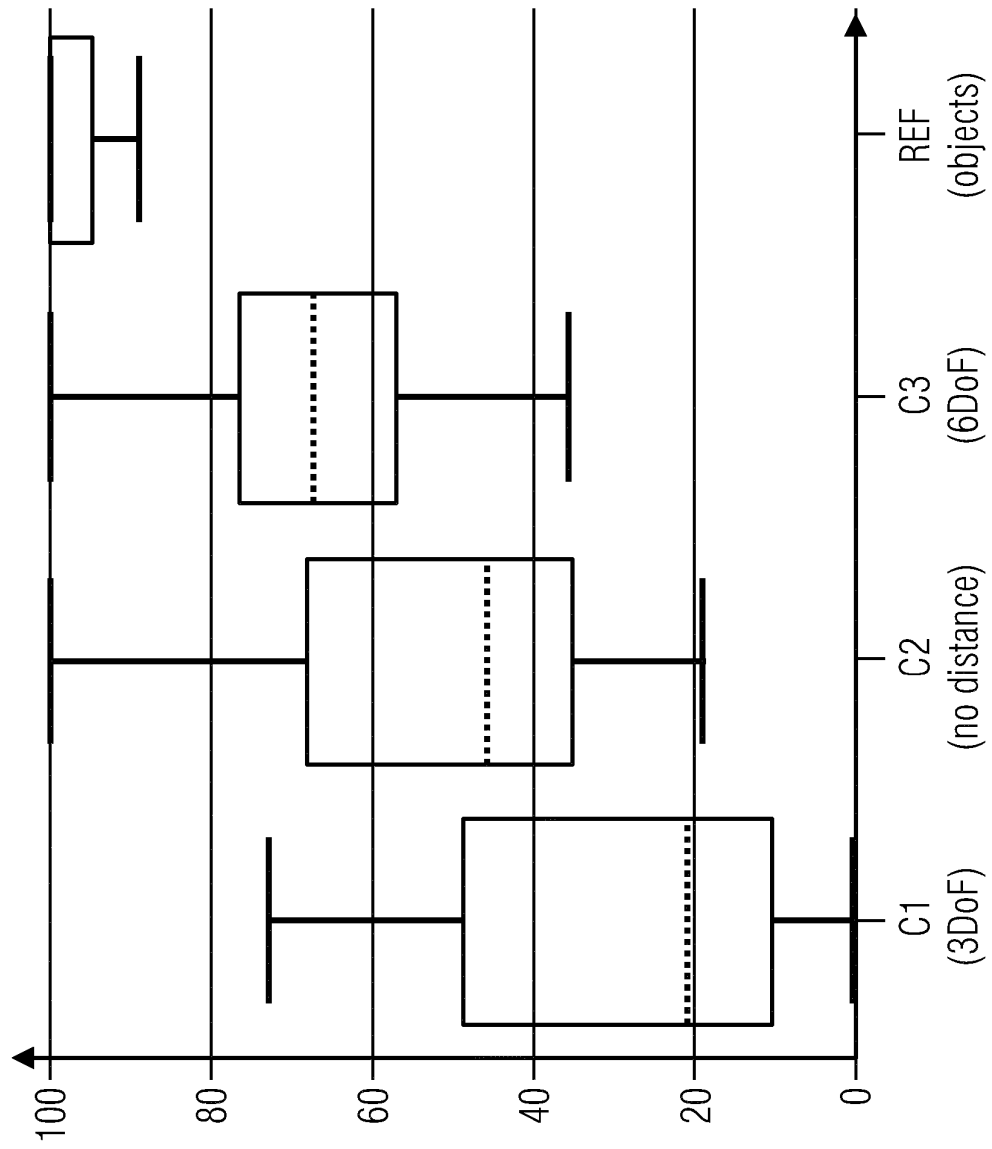


Fig. 9

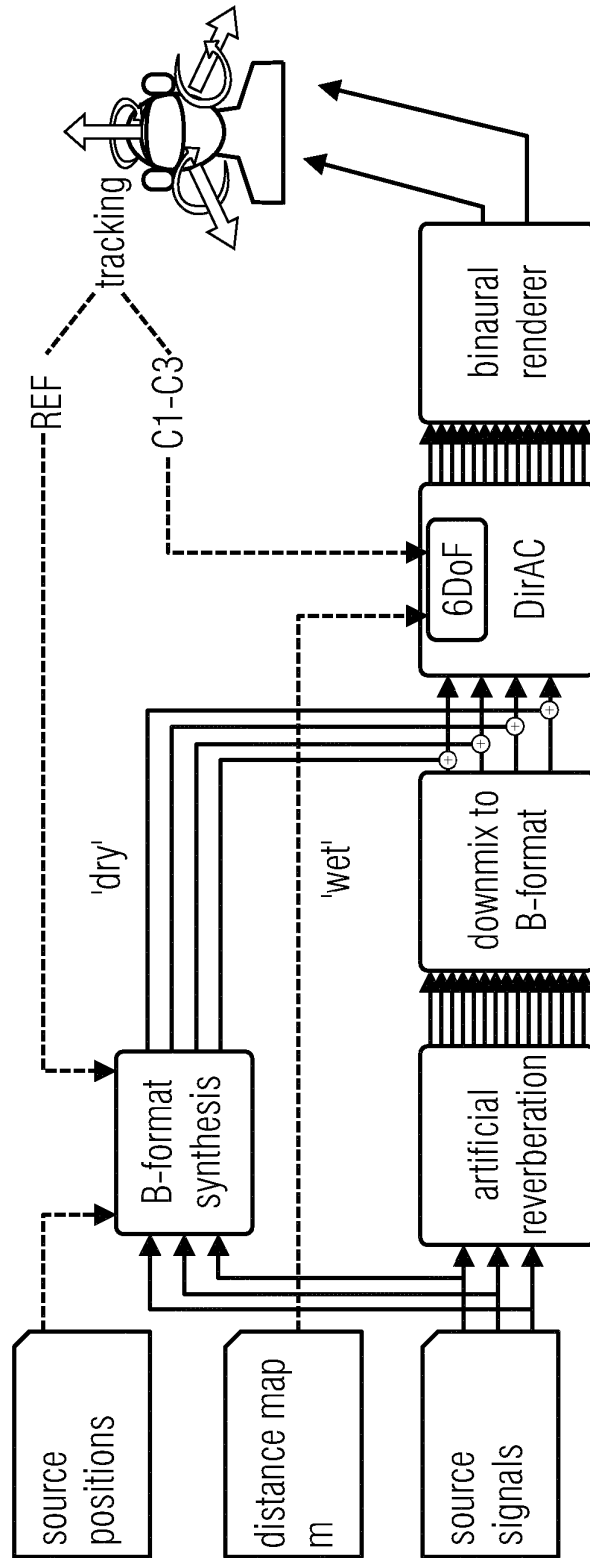


Fig. 10

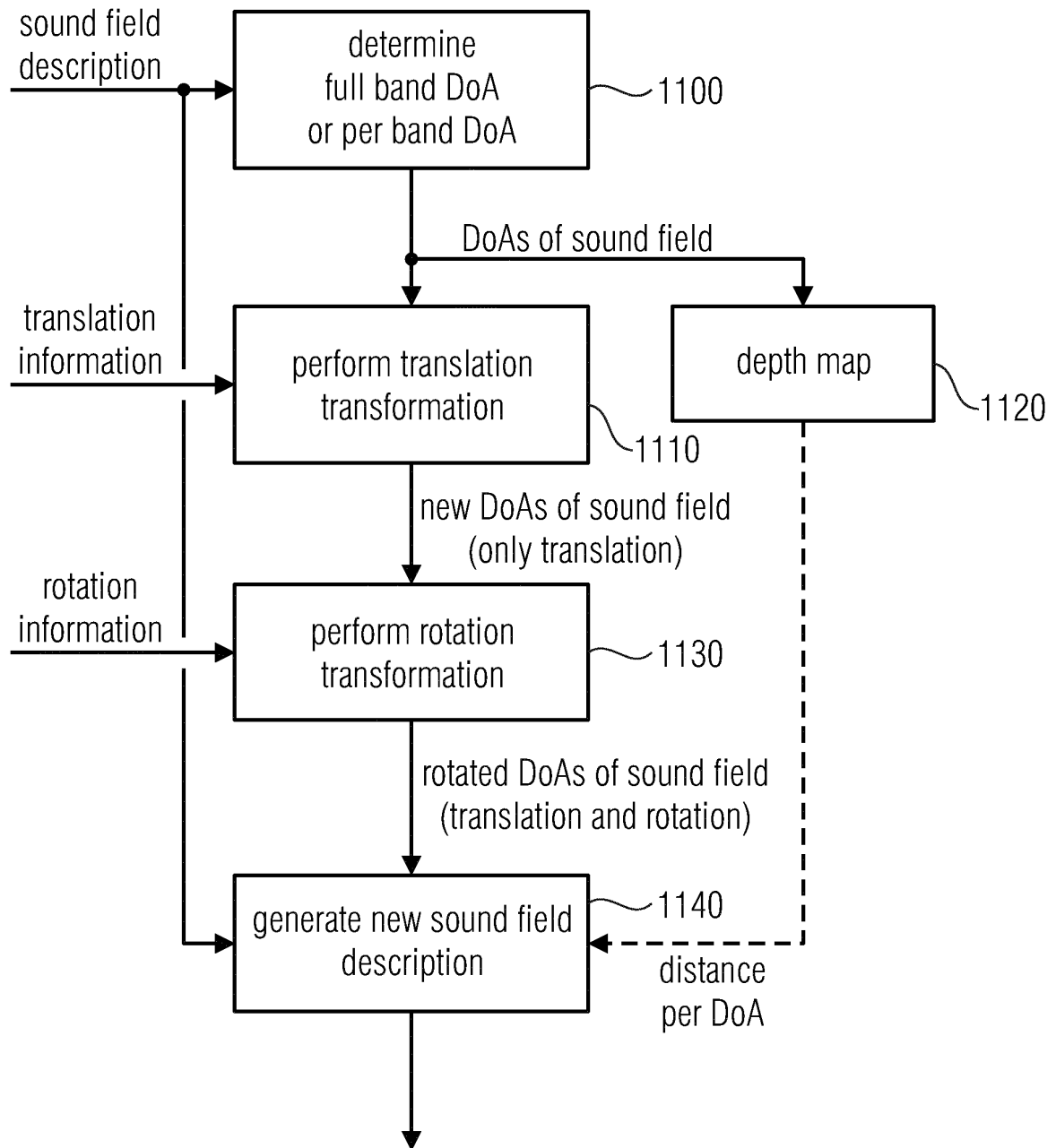


Fig. 11a

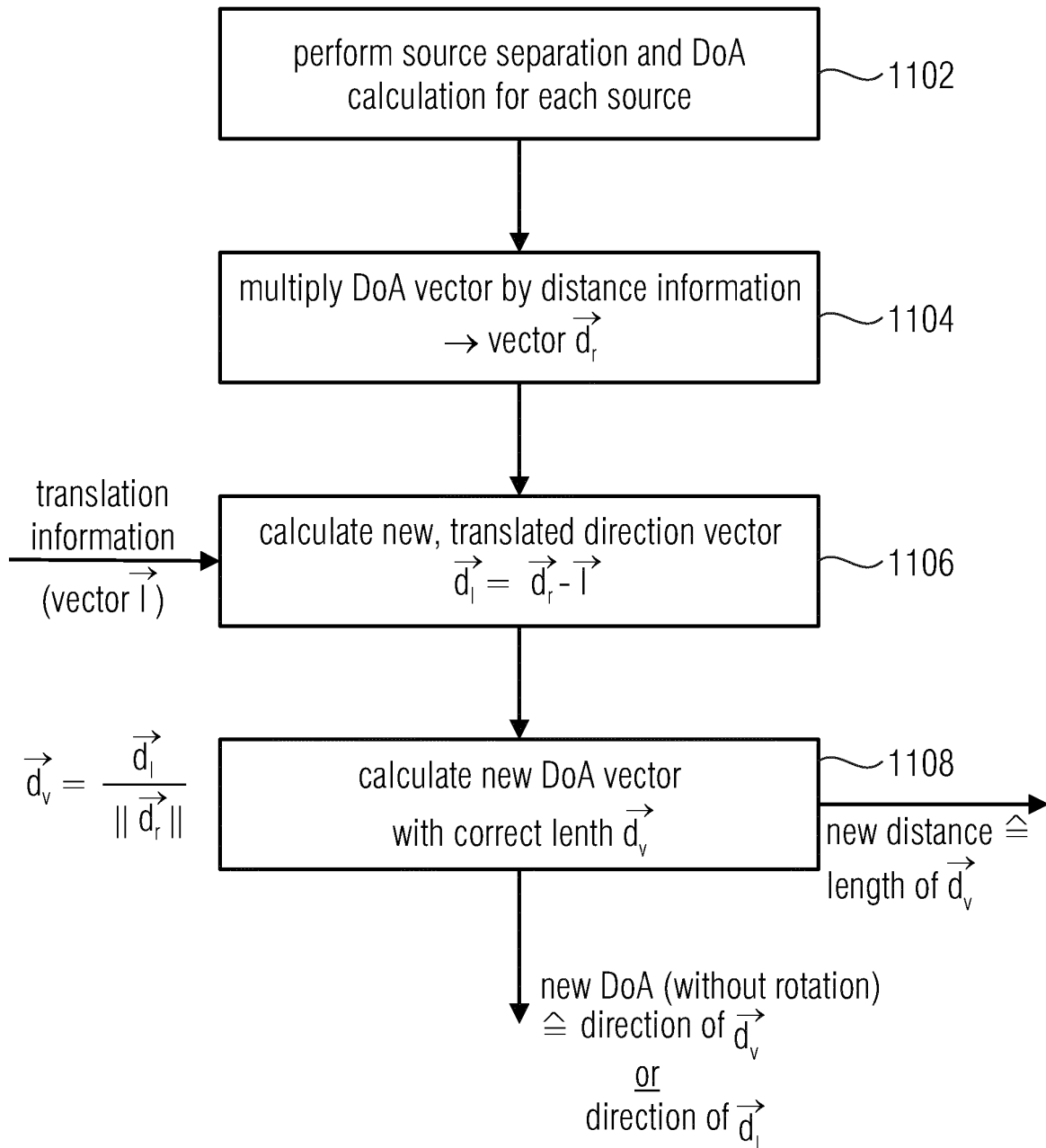
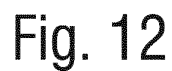
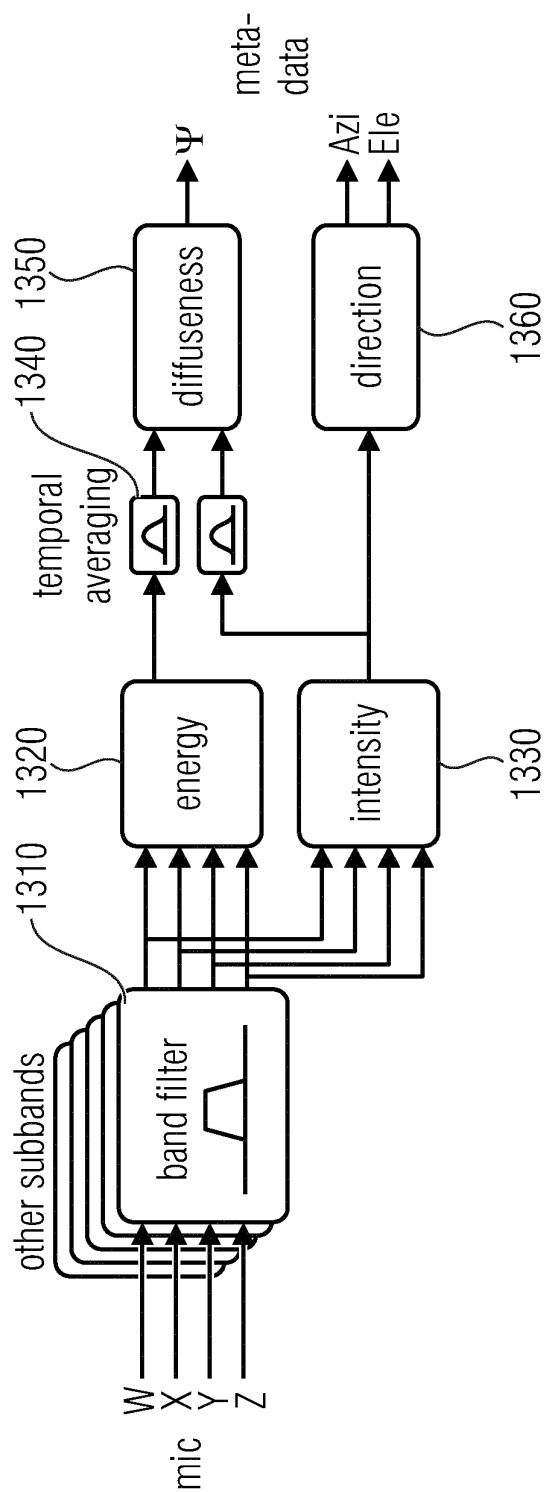


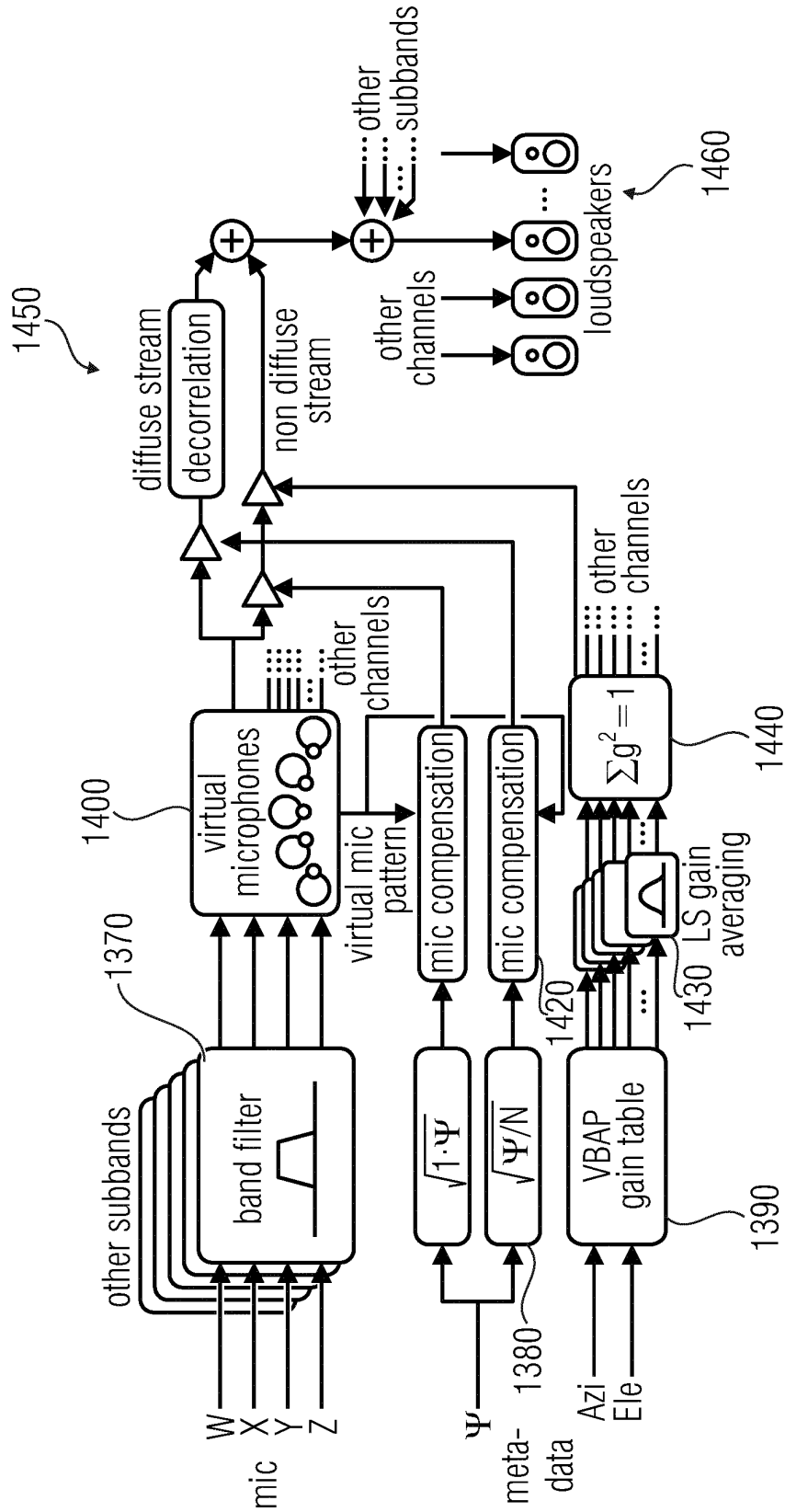
Fig. 11b





DirAC analysis

Fig. 13a



DirAC synthesis

Fig. 13b