

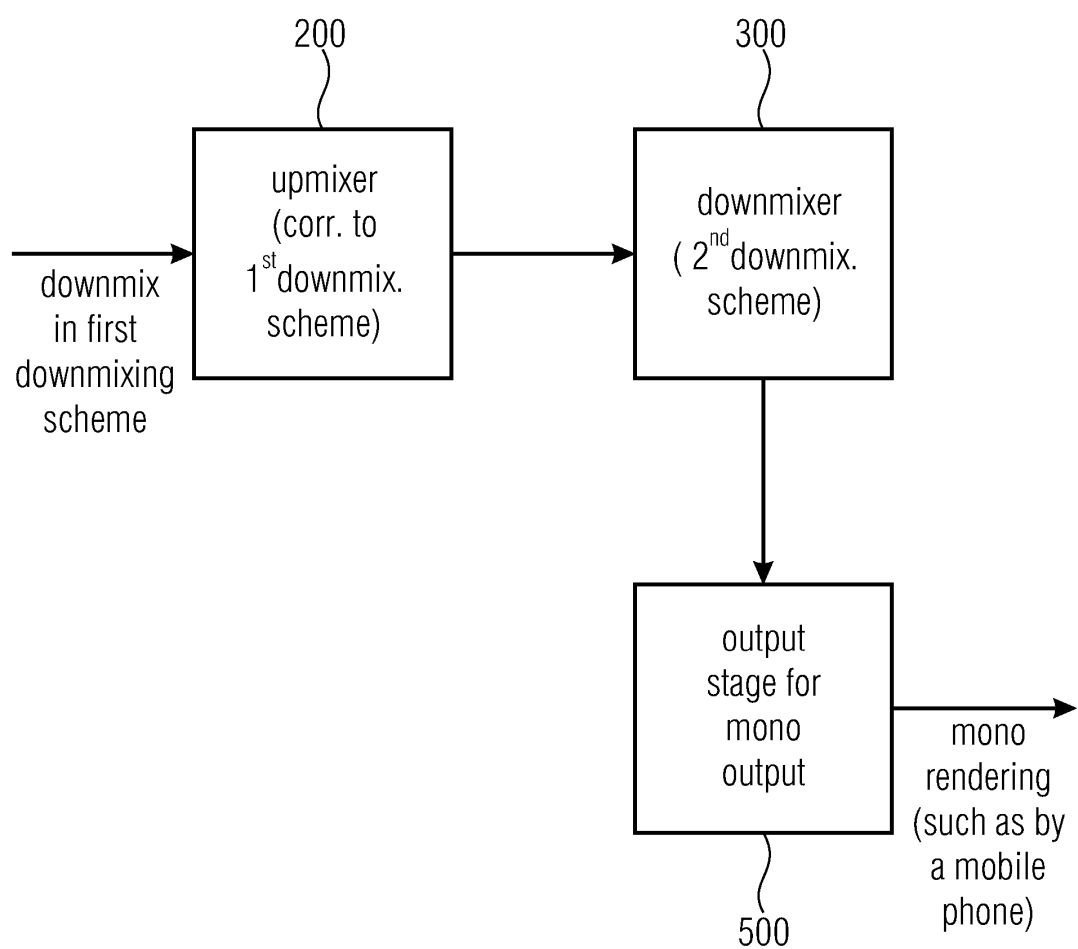


Fig. 1

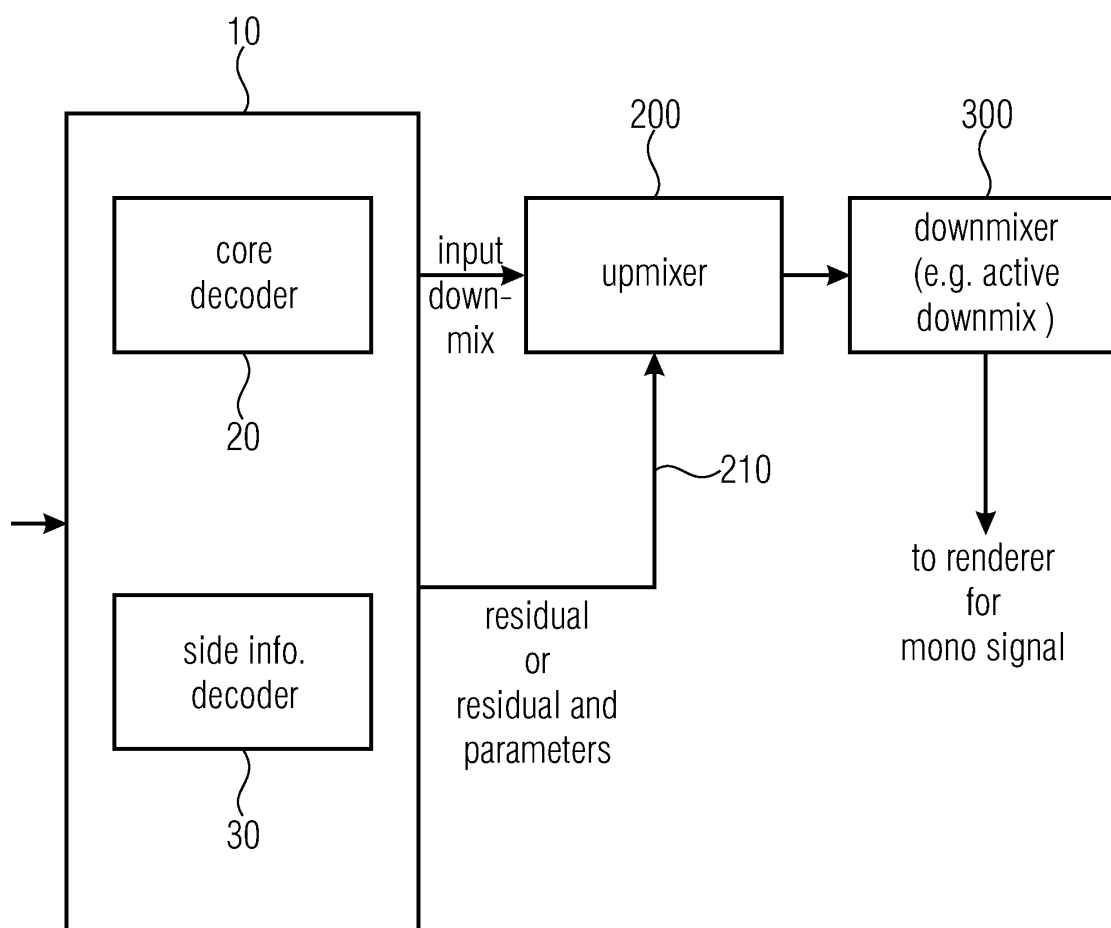


Fig. 2

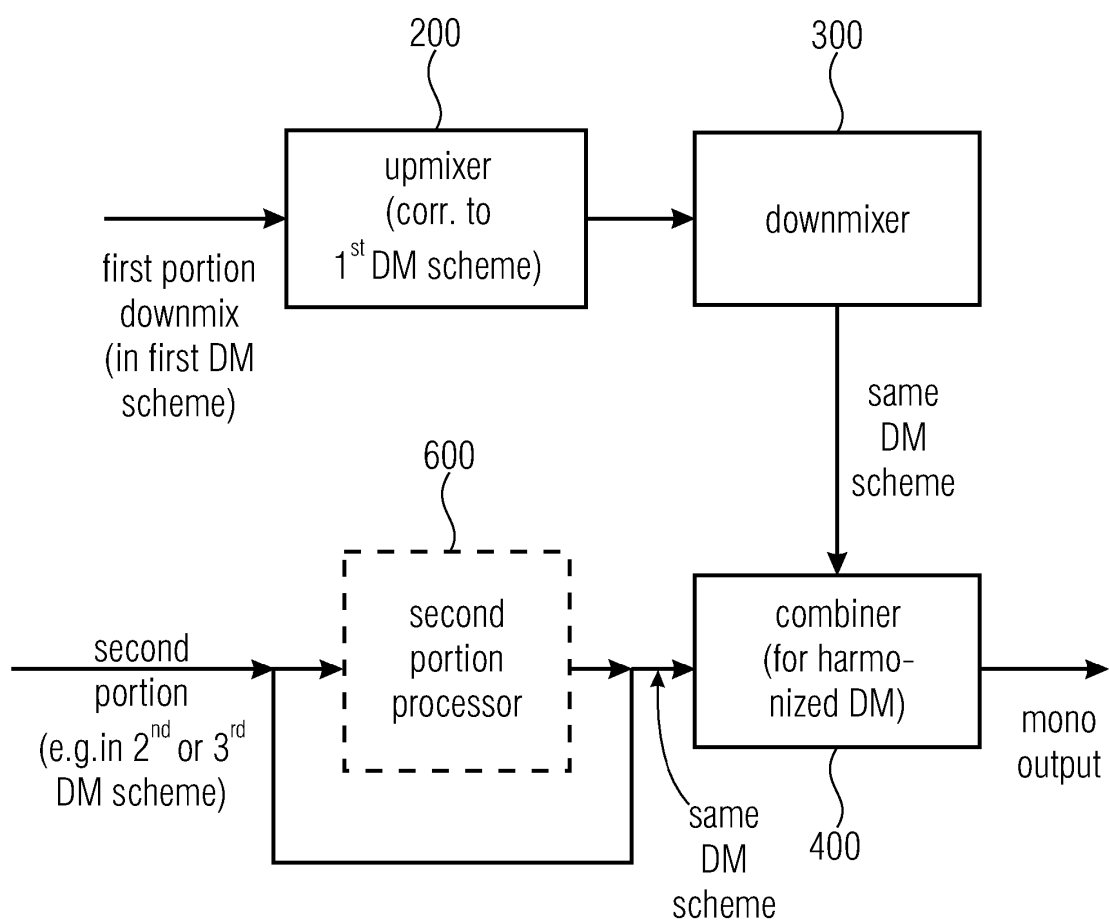


Fig. 3

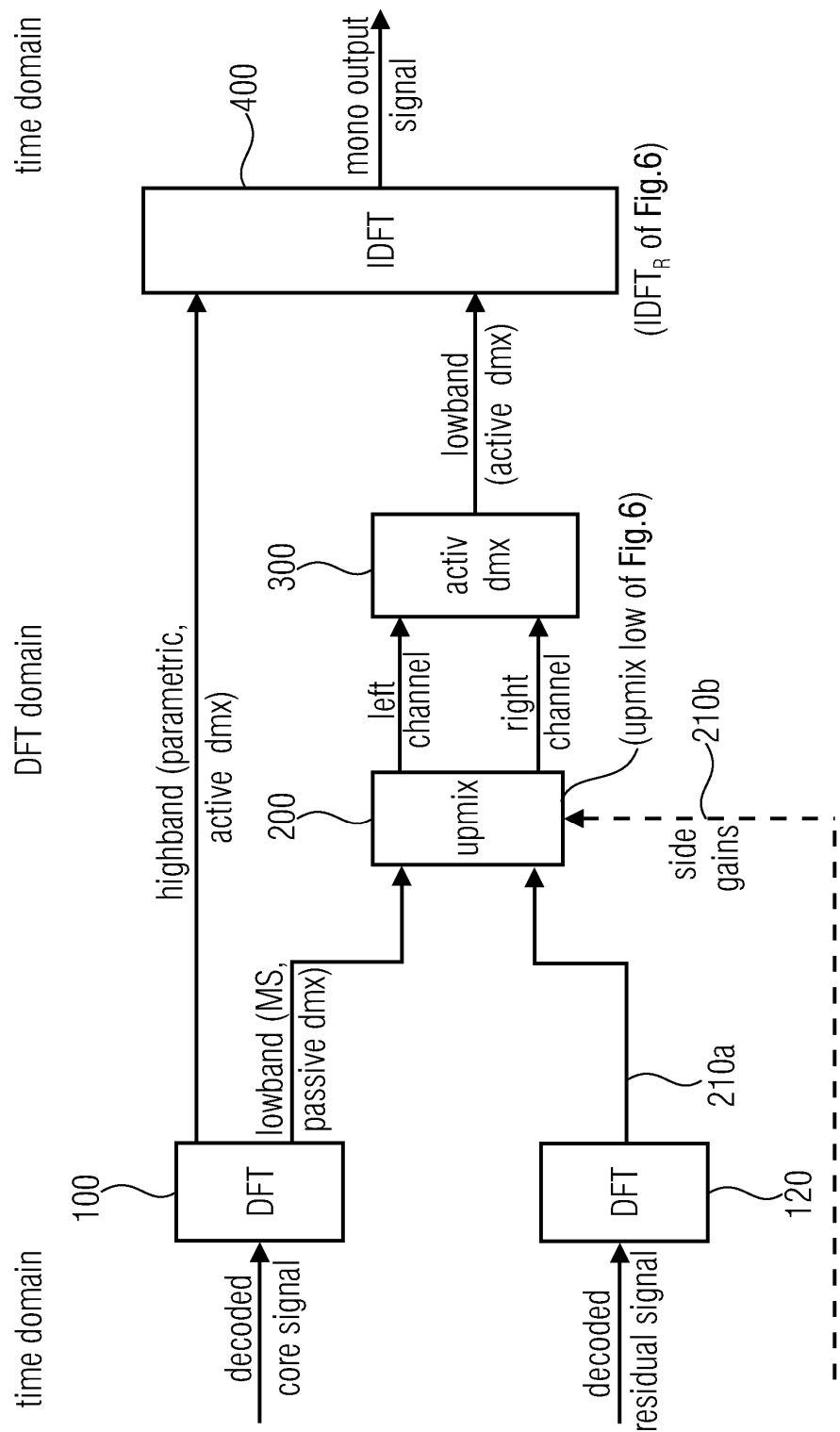


Fig. 4

$$L_i = \text{mid}_i + \hat{g}_b * \text{mid}_i + \text{res}_i$$

$$R_i = \text{mid}_i - \hat{g}_b * \text{mid}_i - \text{res}_i$$

res_i : residual signal for spectral bins i

$\hat{g}_b$: side gain for band b

Fig. 5
(upmixing scheme)

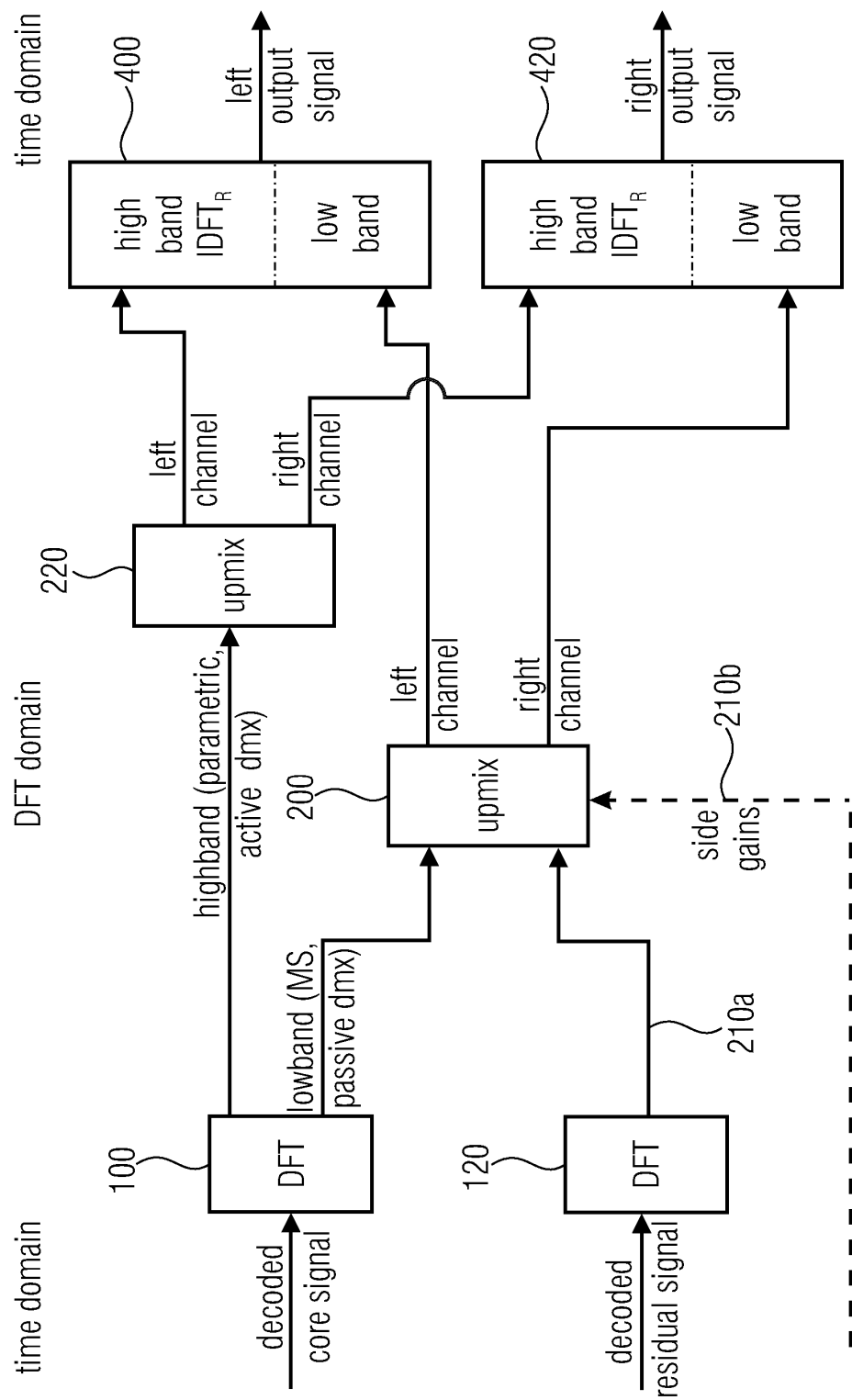


Fig. 6

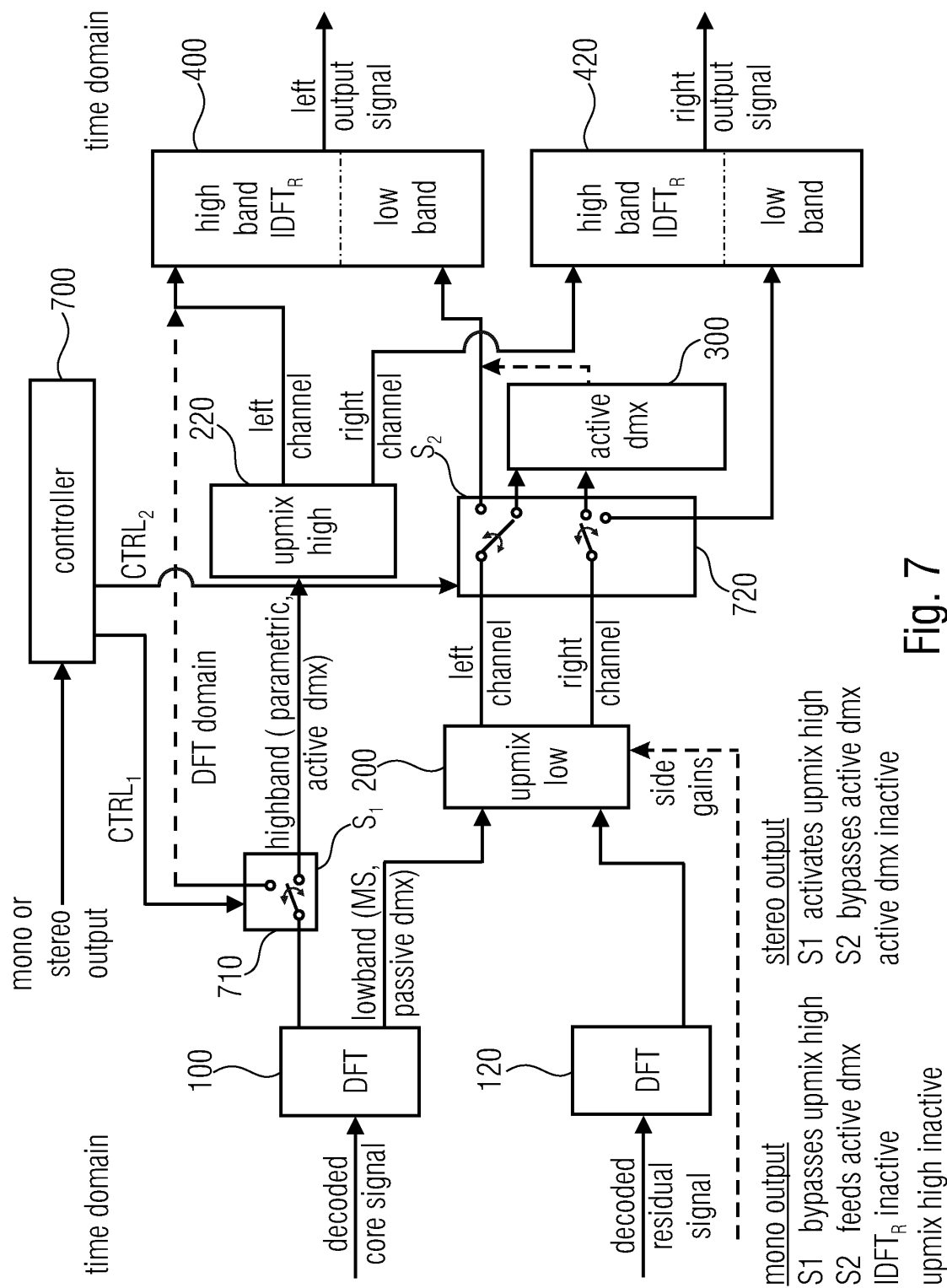


Fig. 7

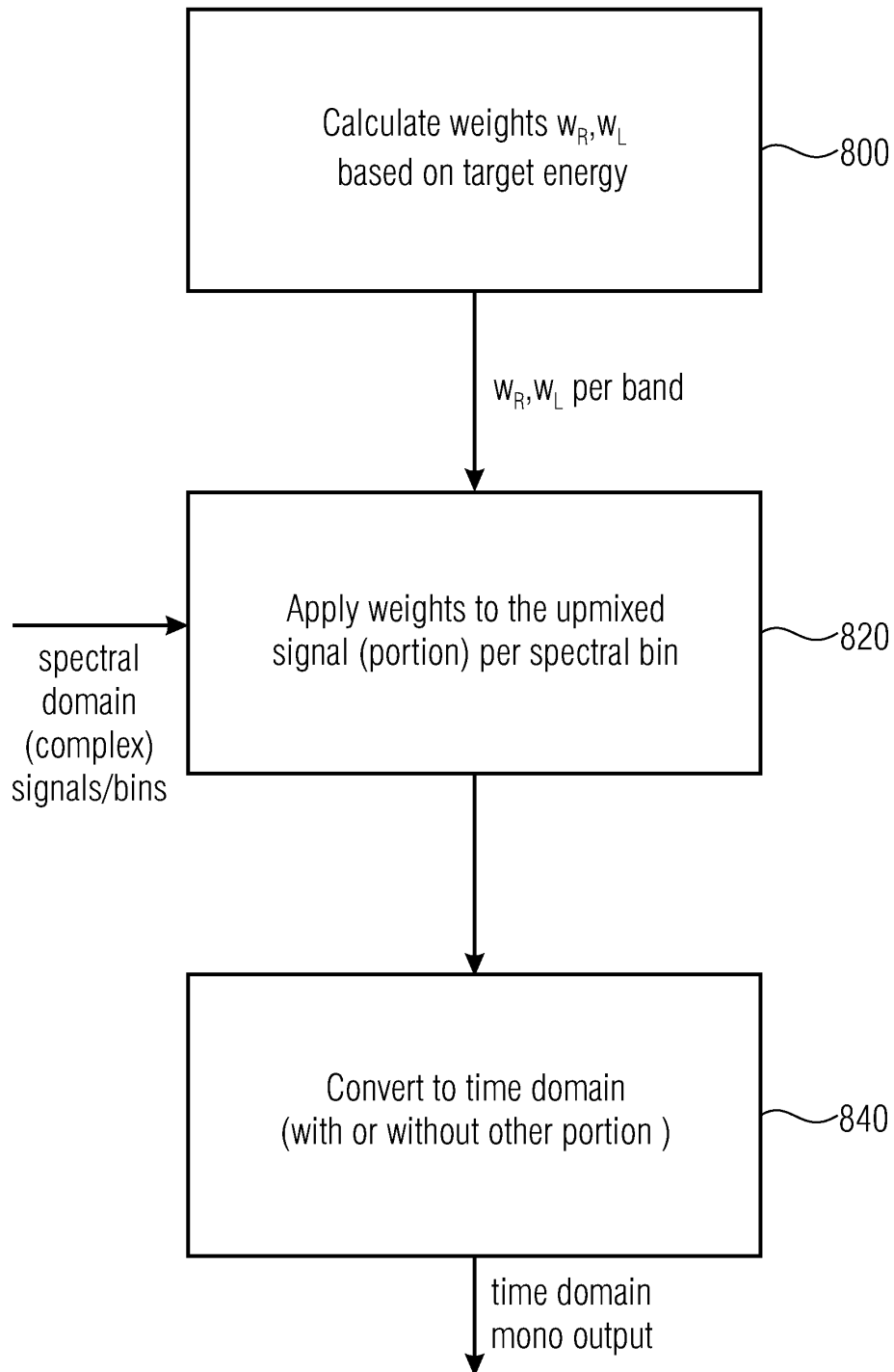


Fig. 8a

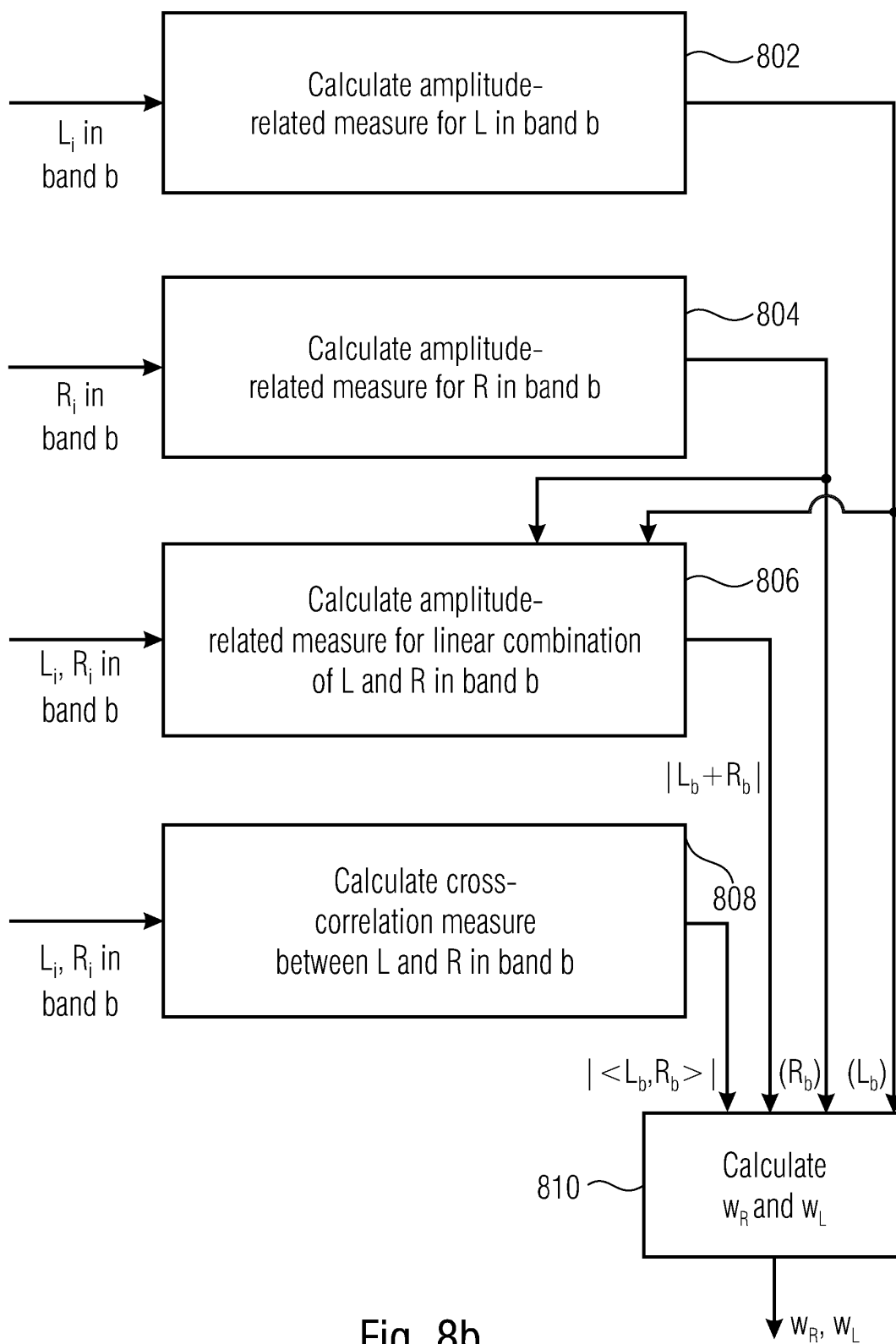
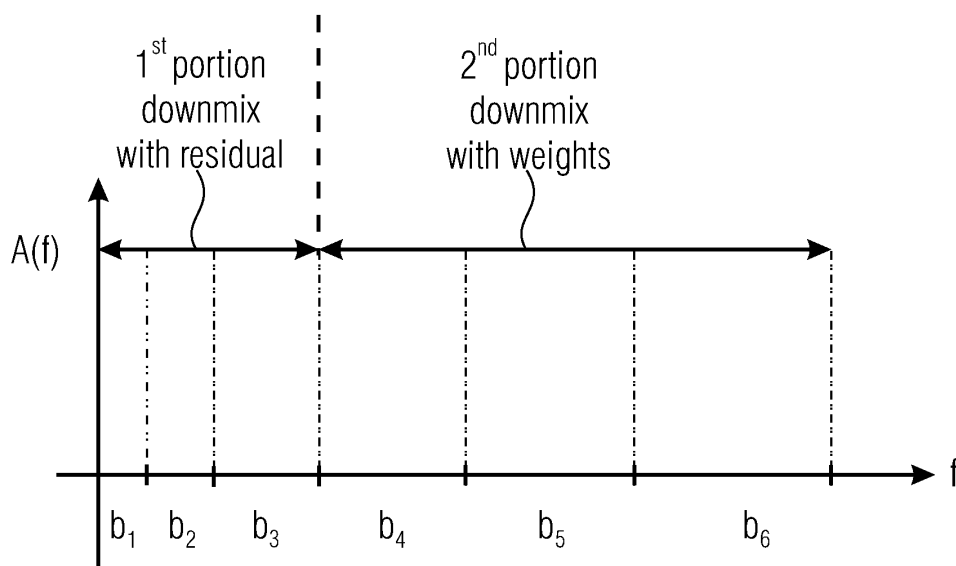


Fig. 8b



- each band b_i has several spectral lines
- number of spectral lines per band increases with frequency

Fig. 9