

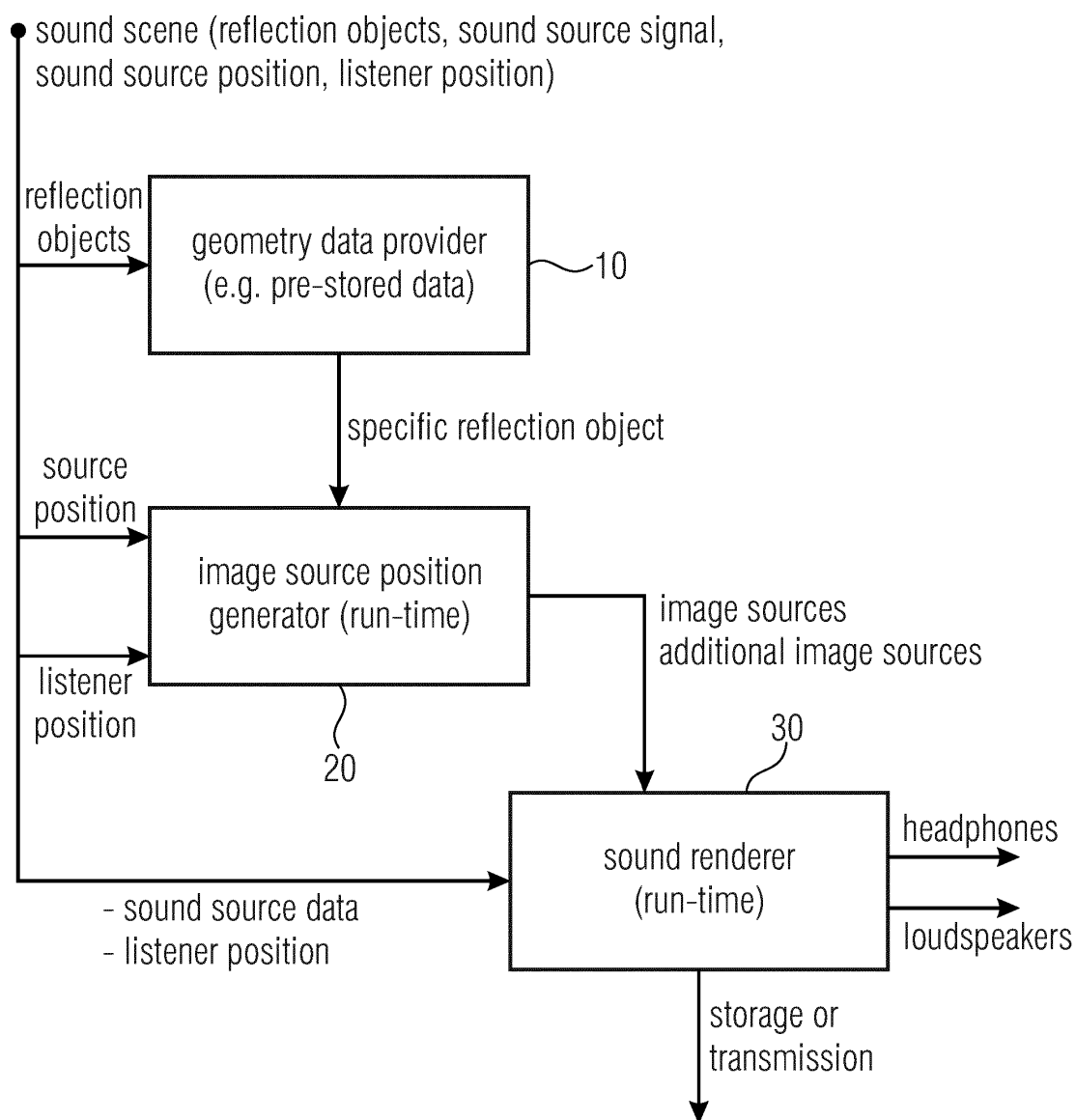


Fig. 1

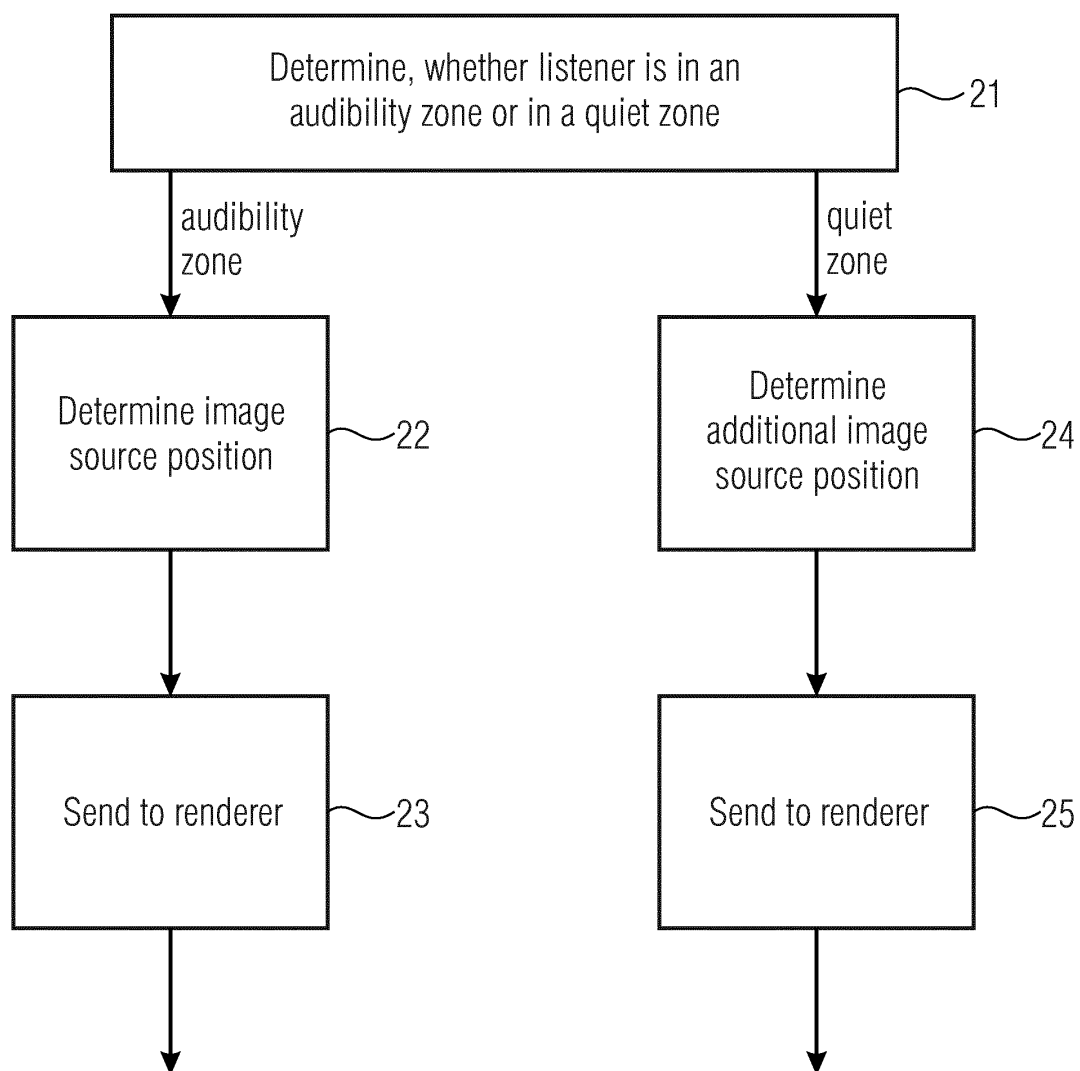


Fig. 2

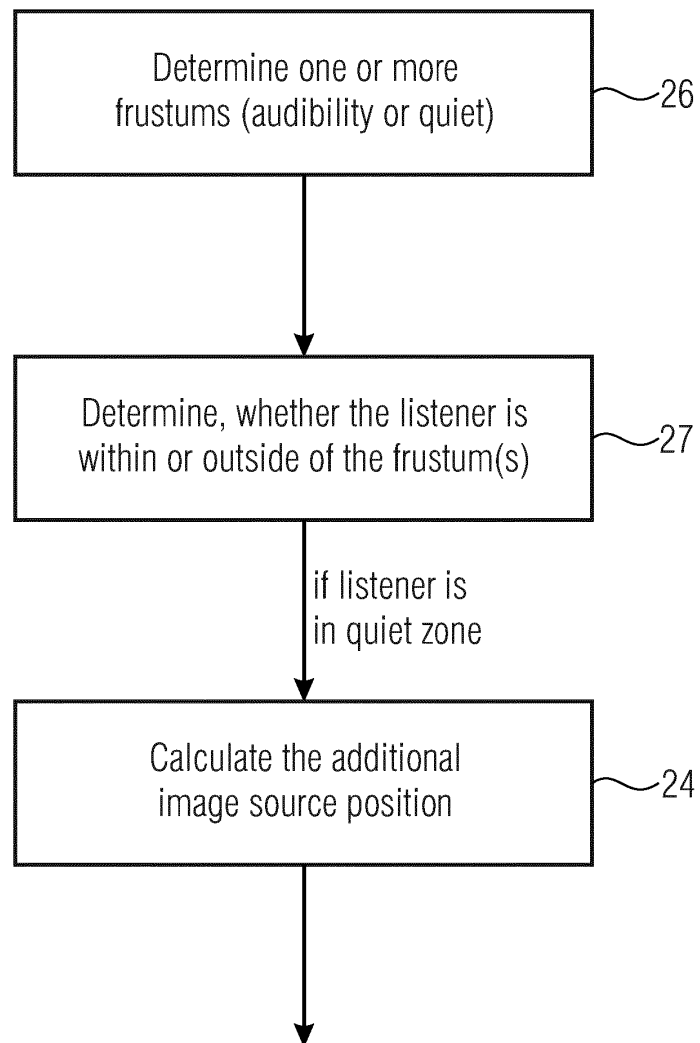


Fig. 3

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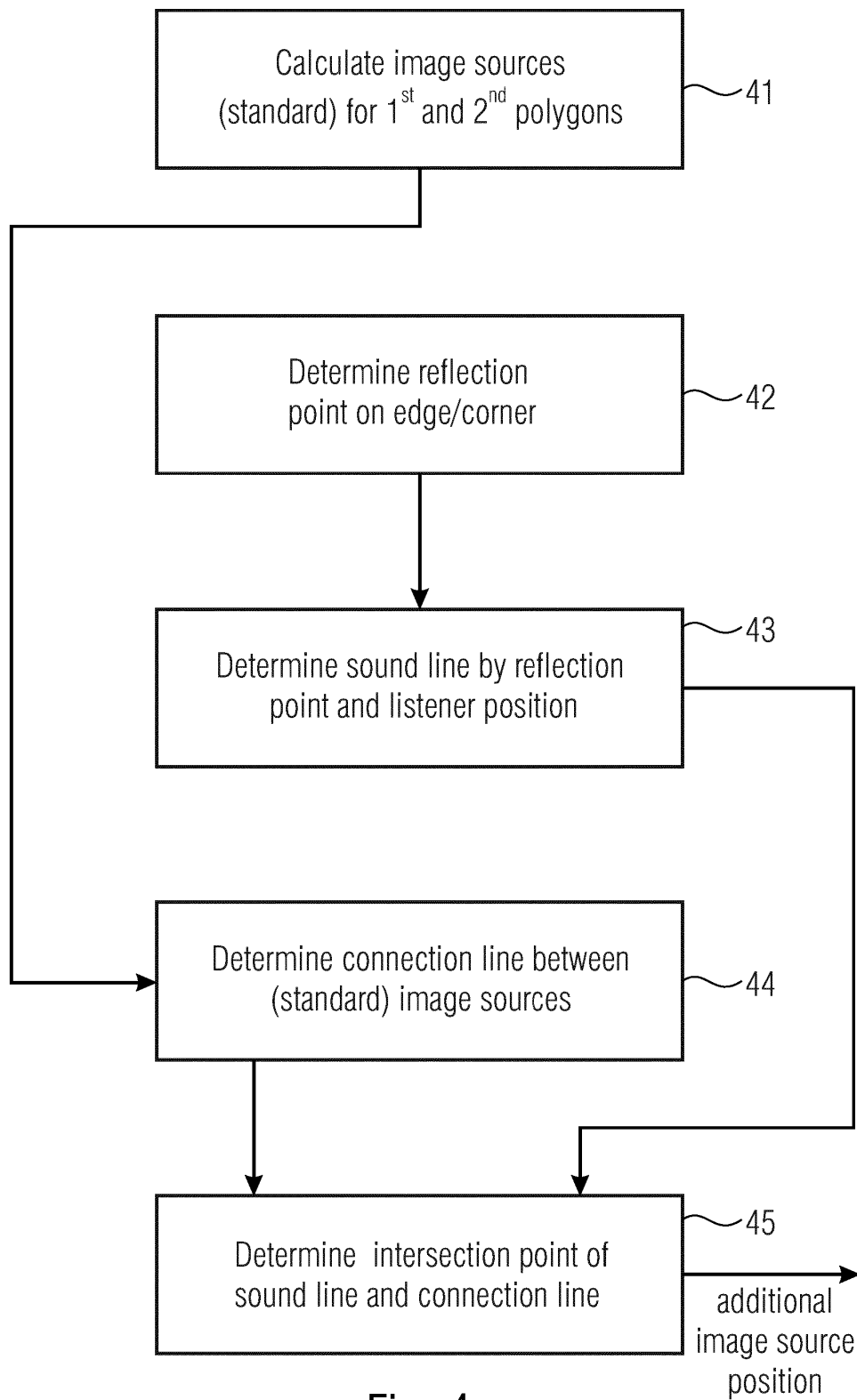


Fig. 4

image sources | construction

- assumptions
- plane wave
 - infinite wall

path length

$$r = r_1 + r_2$$

propagation time

$$t = \frac{r}{c}$$

distance attenuation

$$p \sim \frac{1}{r} \left(E \sim \frac{1}{r^2} \right)$$

wall absorption

$$\alpha(f) \Rightarrow H_w(k)$$

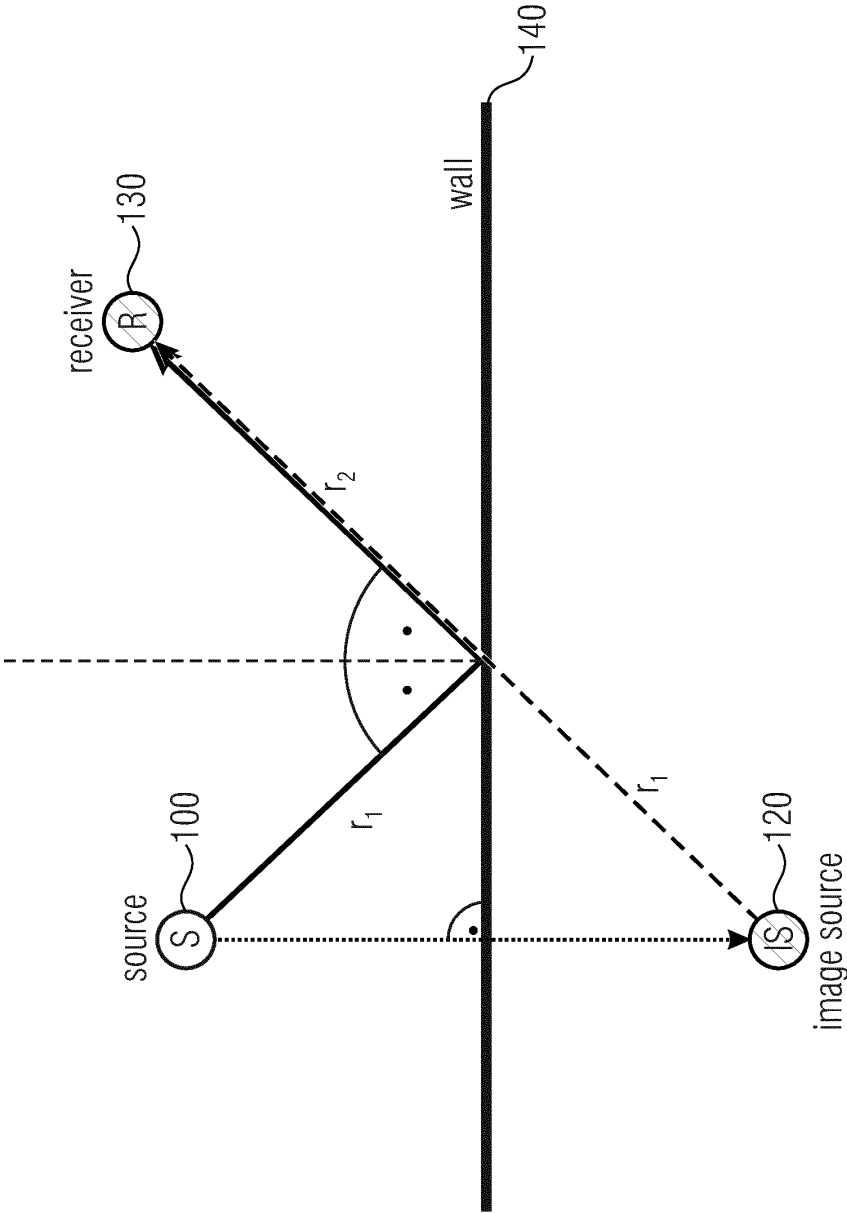


Fig. 5

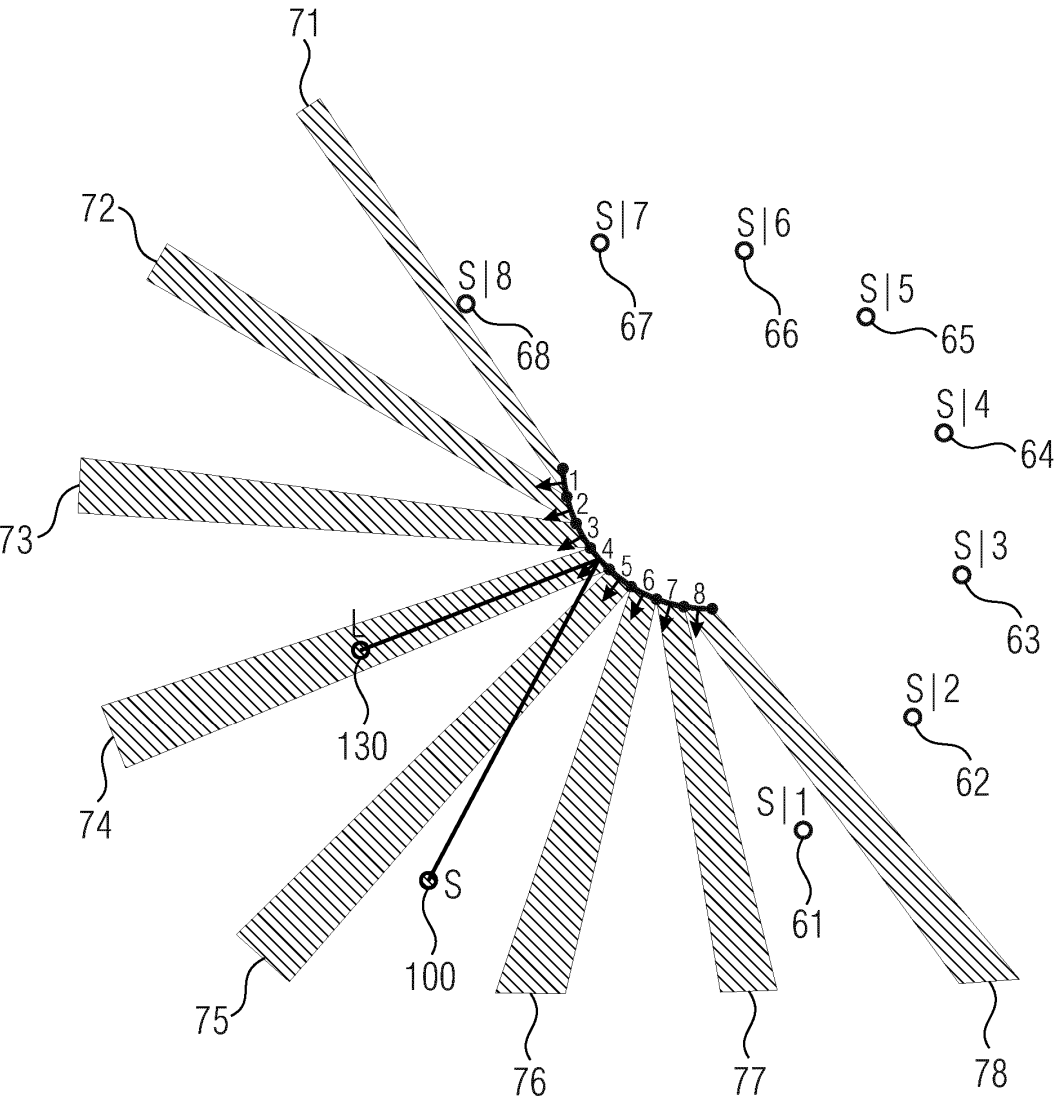


Fig. 6

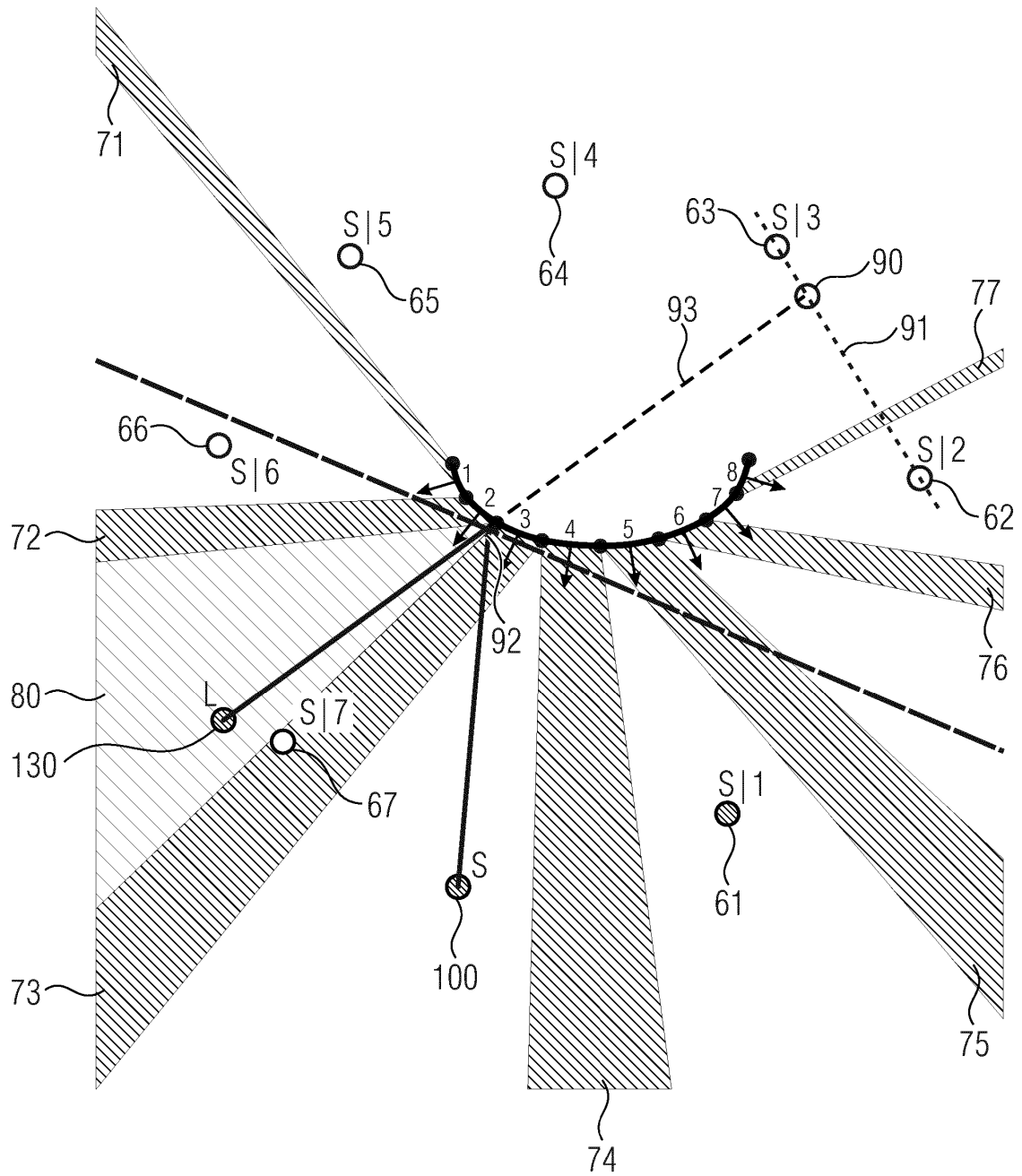


Fig. 7

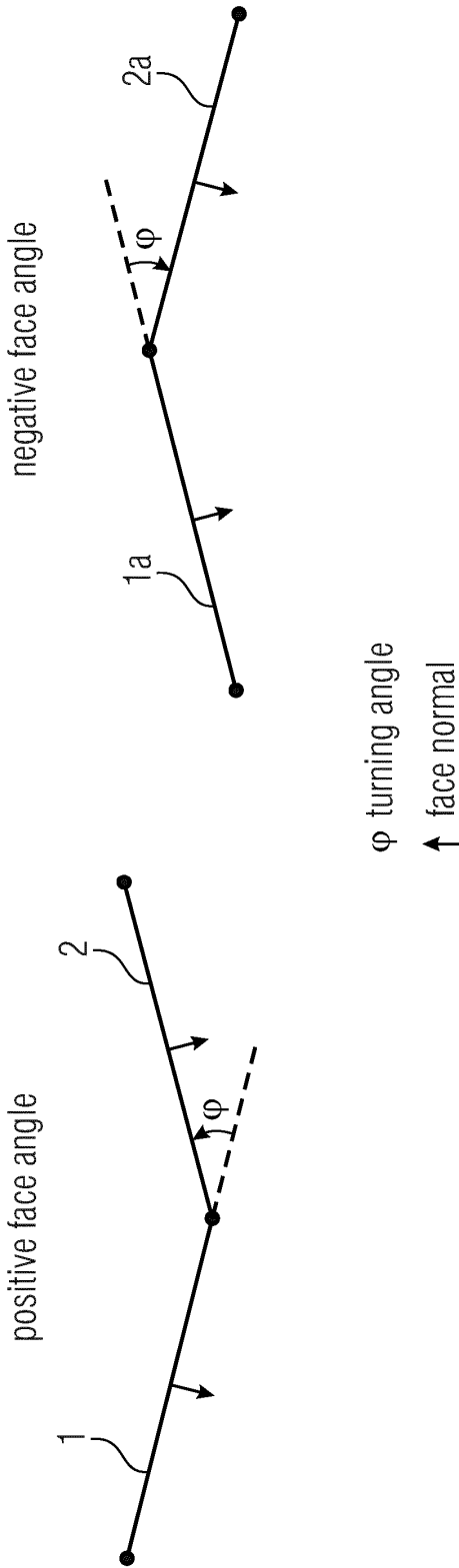


Fig. 8

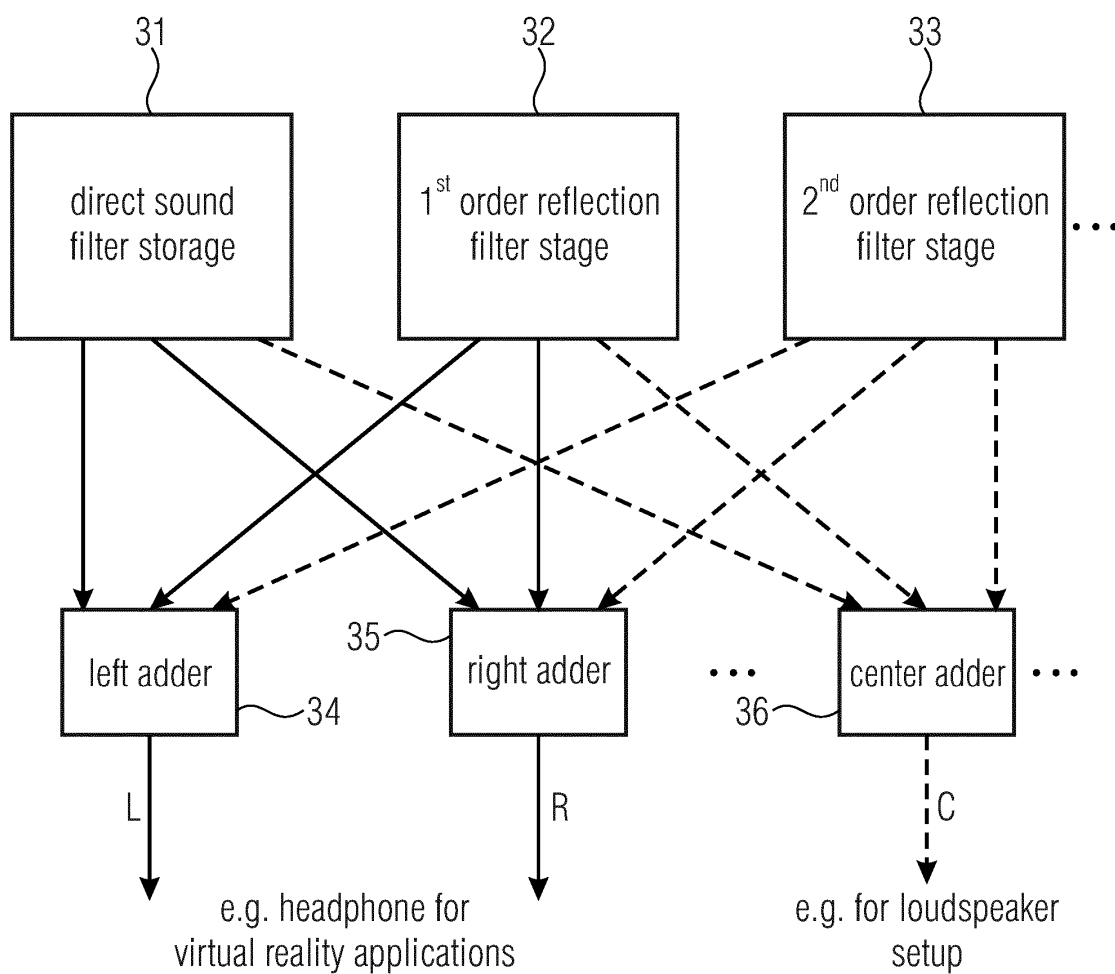


Fig. 9

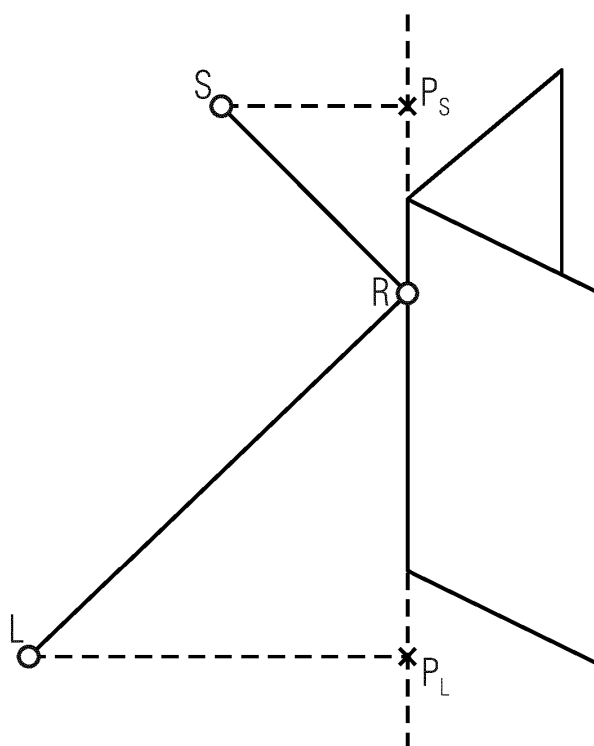


Fig. 10

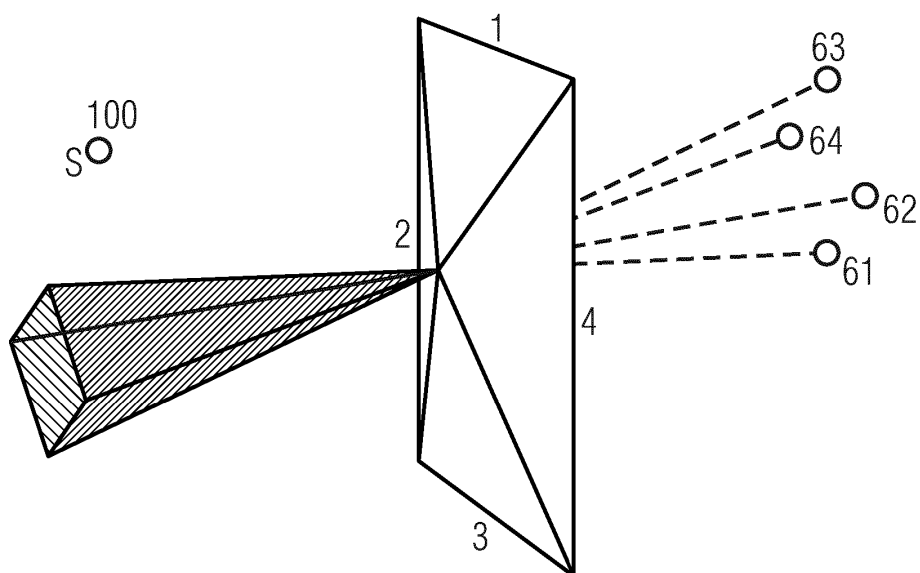


Fig. 11

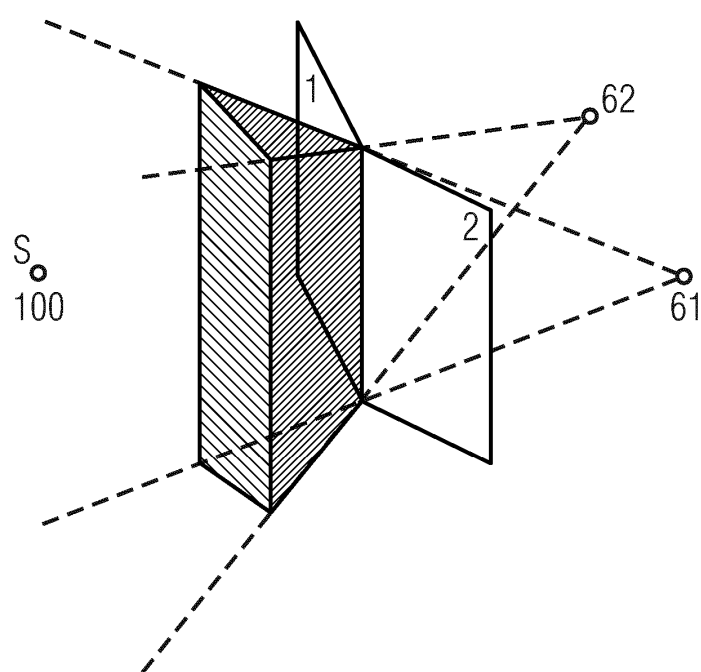


Fig. 12