

Title (en)  
METHOD AT A HEARING DEVICE

Title (de)  
VERFAHREN AN EINEM HÖRGERÄT

Title (fr)  
PROCÉDÉ AU NIVEAU D'UN DISPOSITIF AUDITIF

Publication  
**EP 3886463 A1 20210929 (EN)**

Application  
**EP 21162221 A 20210312**

Priority  
• US 202016827694 A 20200323  
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Abstract (en)  
A method of processing an audio signal, comprising: at an ipsilateral hearing device (100) with a first input unit (110) including one or more microphones (112,113) and configured to generate a first directional input signal ( $F_{L</sub>}$ ); a communications unit (120) configured to receive a second directional input signal ( $F_{R</sub>}$ ) from a contralateral hearing device; an output unit (140); and a processor (130) coupled to the first input unit (110), the communications unit (120) and the output unit (140); determining one or both of a first gain value ( $\alpha$ ;  $H(k)$ ) and a second gain value ( $1-\alpha$ ;  $1-H(k)$ ); generating an intermediate signal ( $V$ ) including a linear combination of the first directional input signal ( $F_{L</sub>}$ ) and the second directional input signal ( $F_{R</sub>}$ ), in accordance with one or both of the first gain value ( $\alpha$ ;  $H(k)$ ) and the second gain value ( $1-\alpha$ ;  $1-H(k)$ ); wherein one or both of the first gain value ( $\alpha$ ;  $H(k)$ ) and the second gain value ( $1-\alpha$ ;  $1-H(k)$ ) are determined in accordance with an objective of making a proportion of the first directional input signal ( $F_{L</sub>}$ ) and a proportion of the second directional signal ( $F_{R</sub>}$ ) at least substantially equal when combined; and generating an output signal ( $Z$ ) for the output unit (140) based on the intermediate signal.

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Citation (search report)  
• [X] US 2014314260 A1 20141023 - AUBREVILLE MARC [DE], et al  
• [A] EP 2360943 A1 20110824 - GN RESOUND AS [DK]

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