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(54) **Compression of spaced sources for hearing assistance devices**

(57) This application relates to a system for compression and mixing for hearing assistance devices by application of compression to individual sound sources before applying a head-related transfer function (HRTF) to prevent compression and cross modulation of interaural-level-difference (ILD) cues for localization, according to one example. Variations of the present system use coordinated compression to left and right individual source signals after application of HRTFs.

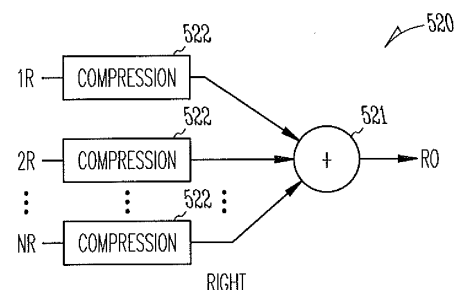
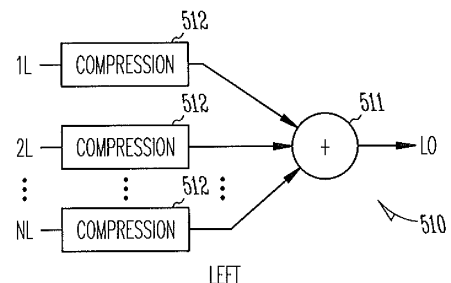


Fig. 5



EUROPEAN SEARCH REPORT

Application Number
EP 13 17 8787

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X,D A	EP 2 131 610 A1 (STARKEY LAB INC [US]) 9 December 2009 (2009-12-09) * abstract * * paragraph [0016] - paragraph [0024]; figures 6-8 *	1-11 12-15	INV. H04R25/00
A,D	----- MICHAEL A STONE AND BRIAN C J MOORE: "Effects of spectro-temporal modulation changes produced by multi-channel compression on intelligibility in a competing-speech task", THE JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, AMERICAN INSTITUTE OF PHYSICS FOR THE ACOUSTICAL SOCIETY OF AMERICA, NEW YORK, NY, US, vol. 123, no. 2, February 2008 (2008-02), pages 1063-1076, XP007921522, ISSN: 0001-4966, DOI: 10.1121/1.2821969 * abstract * -----	1,12	TECHNICAL FIELDS SEARCHED (IPC) H04R H04S
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 29 January 2015	Examiner Gerken, Stephan
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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29-01-2015

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82