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(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:  
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**18180076.4 / 3 404 656**  
**06743182.5 / 1 908 056**

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(54) **CONCEPT FOR BRIDGING THE GAP BETWEEN PARAMETRIC MULTI-CHANNEL AUDIO CODING AND MATRIXED-SURROUND MULTI-CHANNEL CODING**

(57) The purpose of the invention is to bridge the gap between parametric multi-channel audio coding and matrixed-surround multi-channel coding by gradually improving the sound of an up-mix signal while raising the bit-rate consumed by the side-information starting from 0 up to the bit-rates of the parametric methods. More specifically, it provides a method of flexibly choosing an "operating point" somewhere between matrixed-surround (no side-information, limited audio quality) and fully parametric reconstruction (full side-information rate required, good quality). This operating point can be chosen dynamically (i.e. varying over time) and in response to the permissible side-information rate, as it is dictated by the individual application.

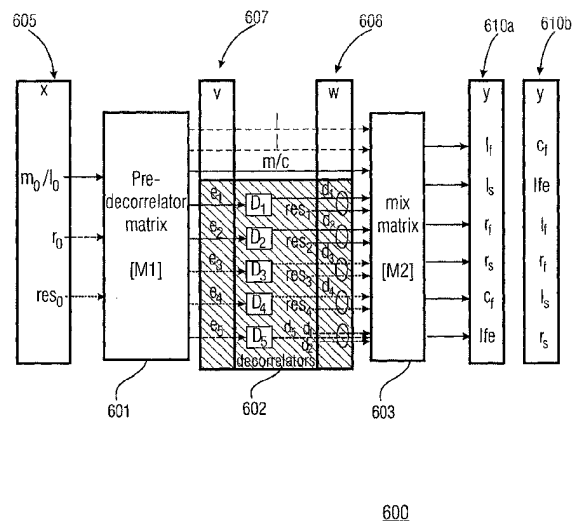


FIGURE 4



EUROPEAN SEARCH REPORT

Application Number

EP 23 21 4134

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DOCUMENTS CONSIDERED TO BE RELEVANT

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	MEARES D J ET AL: "MATRIXED SURROUND SOUND IN AN MPEG DIGITAL WORLD", JOURNAL OF THE AUDIO ENGINEERING SOCIETY, AUDIO ENGINEERING SOCIETY, NEW YORK, NY, US, vol. 46, no. 4, April 1998 (1998-04), pages 331-335, XP000783409, ISSN: 1549-4950 * the whole document *	1-13	TECHNICAL FIELDS SEARCHED (IPC)  G10L H04S
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The present search report has been drawn up for all claims

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Place of search <b>The Hague</b>	Date of completion of the search <b>16 February 2024</b>	Examiner <b>Burchett, Stefanie</b>
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ON EUROPEAN PATENT APPLICATION NO.**

EP 23 21 4134

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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16-02-2024

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