

Title (en)  
AUDIO PROCESSING

Title (de)  
AUDIOVERARBEITUNG

Title (fr)  
TRAITEMENT AUDIO

Publication  
**EP 3745744 A3 20210331 (EN)**

Application  
**EP 20176223 A 20200525**

Priority  
GB 201907601 A 20190529

Abstract (en)  
An apparatus for processing an input audio signal comprising multiple channels, the apparatus comprising: means for deriving, based on the input audio signal, a first signal component, comprising at least one input channel, and a second signal component, comprising multiple input channels, wherein the first signal component is dependent upon at least a first portion of a spatial audio image conveyed by the input audio signal, and the second signal component is dependent upon at least a second portion of the spatial audio image that is different to the first portion; cross-channel mixing means for cross-channel mixing of a plurality of input channels; means for directing the second signal component to the cross-channel mixing means for cross-channel mixing of at least some of the multiple input channels of the second signal component to produce a modified second signal component; bypass means for enabling the first signal component to bypass the cross-channel mixing means; and means for combining the first signal component and the modified second signal component into an output audio signal comprising two output channels configured for rendering by headphone apparatus.

IPC 8 full level  
**H04S 3/00** (2006.01)

CPC (source: CN EP GB)  
**G10L 19/00** (2013.01 - GB); **G10L 19/008** (2013.01 - GB); **H04S 3/004** (2013.01 - EP); **H04S 7/30** (2013.01 - GB); **H04S 7/306** (2013.01 - CN); **H04R 2420/01** (2013.01 - EP); **H04S 2420/01** (2013.01 - CN EP)

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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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DOCDB simple family (application)  
**EP 20176223 A 20200525**; CN 202010473489 A 20200529; CN 202210643129 A 20200529; GB 201907601 A 20190529