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(54) Title: APPARATUS, METHOD OR COMPUTER PROGRAM FOR SYNTHESIZING A SPATIALLY EXTENDED SOUND SOURCE USING VARIANCE OR COVARIANCE DATA

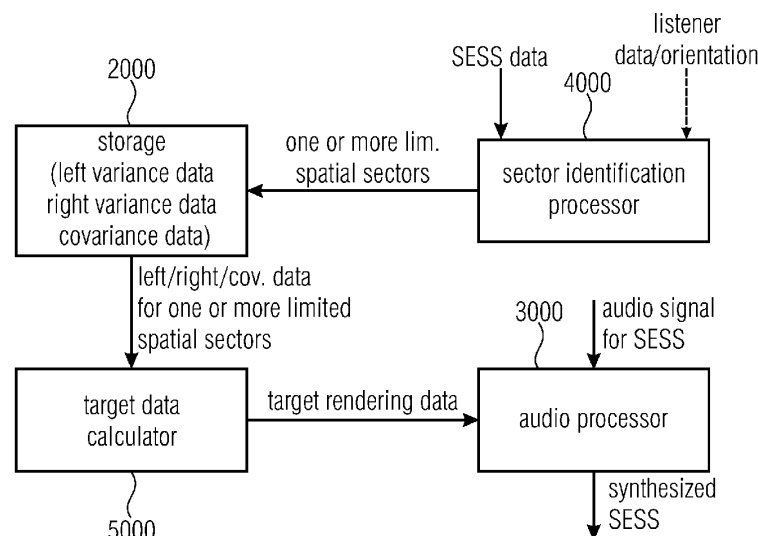


Fig. 3
(THIRD ASPECT)

(57) Abstract: An apparatus for synthesizing a spatially extended sound source (SESS), comprises: a storage (200, 2000) for storing one or more rendering data items for different limited spatial sectors, wherein the different limited spatial sectors are located in a rendering range for a listener, wherein the one or more rendering data items for a limited spatial sector comprises at least one of a left variance data item, a right variance data item, and a left-right covariance data item; a sector identification processor (4000) for identifying one or more limited spatial sectors for the spatially extended sound source within the rendering range for the listener based on spatially extended sound source data; a target data calculator (5000) for calculating target rendering data from the stored left variance data, the stored right variance data, or the stored covariance data; and an audio processor (300, 3000) for processing an audio signal representing

[Continued on next page]



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the spatially extended sound source using the target rendering data.