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(54) **Title:** A METHOD FOR ENLARGING A LOCATION WITH OPTIMAL THREE-DIMENSIONAL AUDIO PERCEPTION

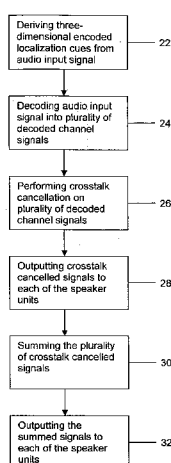


Figure 1

(57) **Abstract:** There is provided a method for enlarging a location with optimal three-dimensional audio perception. Optimal three-dimensional audio perception may relate to a fully spatial sound effect. The method includes deriving three-dimensional encoded localization cues from an audio input signal having a first channel signal and a second channel signal; decoding the first channel signal and the second channel signal into a plurality of decoded channel signals, the plurality of decoded channel signals being equal to a number of speaker units; performing crosstalk cancellation on the plurality of decoded channel signals to eliminate crosstalk between the plurality of decoded channel signals; and outputting the plurality of decoded channel signals which have been subjected to crosstalk cancellation to each of the number of speaker units. It is advantageous that the crosstalk cancellation includes further processing to generate a smoothed frequency envelope.