

Abstract of the Disclosure

5

## Multichannel Audio Coding

Disclosed is a method for decoding M encoded audio channels representing N audio channels, where N is two or more, and a set of one or more spatial parameters, wherein one or more of said spatial parameters are differentially encoded. The method comprises: a) receiving said M encoded audio channels and said set of spatial parameters, b) applying a differential decoding process to the one or more differentially encoded spatial parameters, c) deriving N audio signals from said M encoded channels, wherein each audio signal is divided into a plurality of frequency bands, wherein each band comprises one or more spectral components, and d) generating a multichannel output signal from the N audio signals and the spatial parameters. M is two or more, at least one of said N audio signals is a correlated signal derived from a weighted combination of at least two of said M encoded audio channels. Said set of spatial parameters includes a first parameter indicative of the amount of an uncorrelated signal to mix with a correlated signal. Step d) includes deriving at least one uncorrelated signal from said at least one correlated signal, and controlling the proportion of said at least one correlated signal to said at least one uncorrelated signal in at least one channel of said multichannel output signal in response to one or ones of said spatial parameters, wherein said controlling is at least partly in accordance with said first parameter.

Fig. 7