

A SYSTEM AND METHOD FOR EXPANDING MULTI-SPEAKER PLAYBACK

ABSTRACT

[0072] The present invention addresses concerns of reproducing stereo sounds with up to 5.1 speaker systems. It also addresses the issue of scalability in terms of computation and memory usage. The present invention adopts multi-band processing to allow different frequency bands to be steered separately. This advantageously achieves better channel separation when there are more than one dominant signal at any time. As the number of frequency bands increases, the ambiguity of decoding is reduced as the chances of the dominant band falling into the different frequency bands increases. The issues of multiple dominant signals is further decreased by introducing slow decay of surround signals when there is a dominant center signal and vice versa. This is based on the assumption that not all dominant signals are active at all times.

[0073] FIG.4 accompanies the abstract.