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(54) Title: APPARATUS AND METHOD FOR DECODING OR ENCODING AN AUDIO SIGNAL USING ENERGY INFORMATION VALUES FOR A RECONSTRUCTION BAND

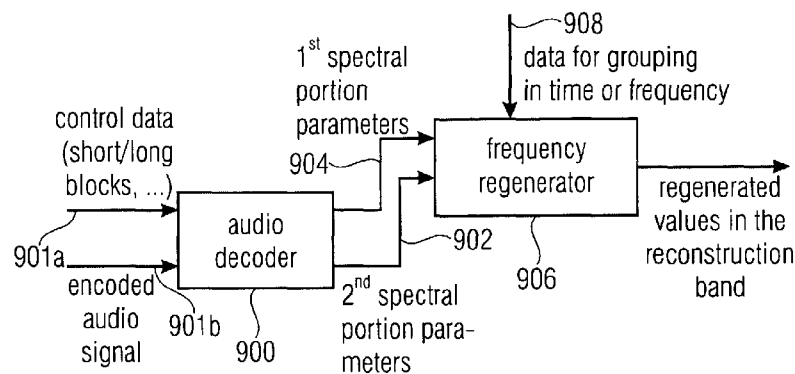


FIG 9A

(57) Abstract: An apparatus for decoding an encoded audio signal comprising an encoded representation of a first set of first spectral portions and an encoded representation of parametric data indicating spectral energies for a second set of second spectral portions, comprises: an audio decoder (900) for decoding the encoded representation (901b) of the first set of the first spectral portions to obtain a first set of first spectral portions (904) and for decoding the encoded representation of the parametric data to obtain a decoded parametric data (902) for the second set of second spectral portions indicating, for individual reconstruction bands, individual energies; a frequency regenerator (906) for reconstructing spectral values in a reconstruction band (920) comprising a second spectral portion (922, 923) using a first spectral portion of the first set of the first spectral portions and an individual energy for the reconstruction band, the reconstruction band comprising a first spectral portion (921) and the second spectral portion; wherein the frequency regenerator (906) is configured for determining (912) a survive energy information comprising an accumulated energy of the first spectral portion having frequency values in the reconstruction band, determining (918) a tile energy information of further spectral portions (922, 923) of the reconstruction band (920) for frequency values different from the first spectral portion (921) having frequencies in the reconstruction band (920), wherein the further spectral portions (922, 923) are to be generated by frequency regeneration using a first

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spectral portion (302) different from the first spectral portion (921, 306) in the reconstruction band; determining (914) a missing energy in the reconstruction band (920) using the individual energy for the reconstruction band and the survive energy information; and adjusting (916) the further spectral portions in the reconstruction band based on the missing energy information and the tile energy information.