Apparatus, Method and Computer Program for encoding an audio signal or for decoding an encoded audio scene

Abstract

There are disclosed an apparatus for generating an encoded audio scene, and an apparatus for decoding and/or processing an encoded audio scene; as well as related methods and non-transitory storage units storing instructions which, when executed by a processor, cause the processor to perform a related method.

An apparatus (200) for processing an encoded audio scene (304) may comprise, in a first frame (346), a first soundfield parameter representation (316) and an encoded audio signal (346), wherein a second frame (348) is an inactive frame, the apparatus comprising:

an activity detector (2200) for detecting that the second frame (348) is the inactive frame;

a synthetic signal synthesizer (210) for synthesizing a synthetic audio signal (228) for the second frame (308) using the parametric description (348) for the second frame (308);

an audio decoder (230) for decoding the encoded audio signal (346) for the first frame (306); and

a spatial renderer (240) for spatially rendering the audio signal (202) for the first frame (306) using the first soundfield parameter representation (316) and using the synthetic audio signal (228) for the second frame (308), or a transcoder for generating a meta data assisted output format comprising the audio signal (346) for the first frame (306), the first soundfield parameter representation (316) for the first frame (306), the synthetic audio signal (228) for the second frame (308), and a second soundfield parameter representation (318) for the second frame (308).