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(54) Title: ENCODING/DECODING POSITIONS OF POINTS OF A POINT CLOUD COMPRISED IN CUBOID VOLUMES

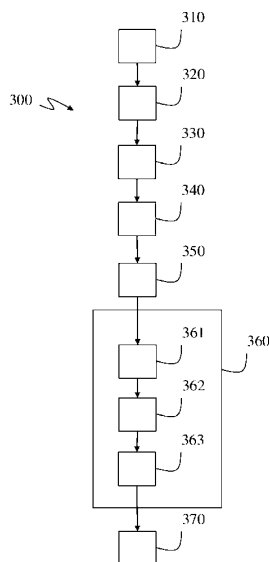


Fig. 6

(57) Abstract: There is provided methods and apparatus of encoding/decoding, into/from a bitstream comprising at least one data unit, position information of points of a point cloud. Said points are comprised in cuboid volumes associated with leaf nodes of an octree structure. The method comprises encoding occupancy information of nodes of the octree structure, said occupancy information being representative of presence of points of the point cloud comprised in said cuboid volumes and for each current cuboid volume comprising at least one point of the point cloud, encoding Trisoup information representative of presence of vertices on edges of the current cuboid volume, and vertices positions along said edges. According to the present invention, occupancy information of a leaf node and Trisoup information of another leaf node are encoded in the data unit in an interleaved way.

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