CLAIMS

What is claimed is:

1. A method of point cloud coding (PCC) implemented by a decoder, comprising:

receiving, by the decoder, encoded patch information data;

obtaining, by the decoder, a patch corresponding to the encoded patch information data, the patch having a patch type (patch_mode);

determining, by the decoder, whether the patch type for the patch is a last patch type; and

terminating, by the decoder, a reconstruction process corresponding to the encoded patch information data when the patch type is the last patch type.

2. A method of point cloud coding (PCC) implemented by an encoder, comprising:

obtaining, by the encoder, a patch frame data unit (pfdu) identifying a patch type (pdfu_patch_mode) for each of a plurality of patches;

determining, by the encoder, whether the patch type for a patch from the plurality of patches is a last patch type;

encoding, by the encoder, patch information data for the patch when the patch type is not the last patch type, the patch information data including the patch type for the patch; and

encoding, by the encoder, the patch information data for the patch when the patch type is set to the last patch type, the patch information data including the last patch type for the patch.

3. The method of claim 2, wherein the patch type is one of a skip patch type, an inter patch type, an intra patch type, and a pulse code modulation (PCM) patch type.

4. The method of any of claims 2 to 3, wherein the patch frame data unit includes a frame index (frmIdx), two dimensional (2D) components corresponding to the patch, and three dimensional (3D) components corresponding to the patch.

5. A decoding device, comprising:

a receiver configured to receive encoded patch information data;

a memory coupled to the receiver, the memory storing instructions; and

a processor coupled to the memory, the processor configured to execute the instructions to cause the decoding device to:

obtain a patch corresponding to the encoded patch information data, the patch having a patch type (patch_mode);

determine whether the patch type for the patch is a last patch type; and

terminate a reconstruction process corresponding to the encoded patch information data when the patch type is the last patch type.

6. An encoding device, comprising:

a receiver configured to receive a three dimensional (3D) image;

a memory coupled to the receiver, the memory containing instructions;

a processor coupled to the memory, the processor configured to implement the instructions to cause the encoding device to carry out the method according to any one of the claims 10 to 14.