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(54) **POINT CLOUD CODING METHOD, POINT CLOUD DECODING METHOD, AND RELEVANT APPARATUSES**

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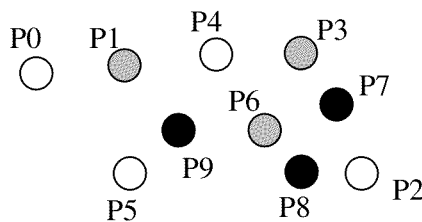
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(57) **ABSTRACT**

A point cloud coding method, including: partitioning a point cloud, and determining a current coding block; determining a quantization parameter optimization enable identifier, a hierarchical level index, and a quantization parameter offset parameter of the current coding block; determining, according to the hierarchical level index and the quantization parameter offset parameter, a quantization step Qstep corresponding to a level of detail; and upon detecting that the quantization parameter optimization enable identifier is a first value, performing operations for one or more points included in the current coding block.

Initial sequence   P0, P1, P2, P3, P4, P5, P6, P7, P8, P9

Sequence based on level of detail (LOD)   P0, P5, P4, P2, | P1, P6, P3, | P9, P8, P7