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(54) **POINT CLOUD ENCODING AND DECODING METHOD AND SYSTEM, AND POINT CLOUD ENCODER AND POINT CLOUD DECODER**

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ABSTRACT

A point cloud encoding method, including: obtaining attribute information about the attributes of a current point in a point cloud; processing the attribute information of the current point to obtain a residual value of the attribute information of the current point; using a target quantization manner, quantizing the residual value of the attribute information of the current point to obtain a quantized residual value of the attribute information of the current point; the target quantization manner comprises at least two of the following quantization manners: a first quantization manner, a second quantization manner, and a third quantization manner.

