

**THREE-DIMENSIONAL DATA ENCODING METHOD,
THREE-DIMENSIONAL DATA DECODING METHOD,
THREE-DIMENSIONAL DATA ENCODING DEVICE, AND
THREE-DIMENSIONAL DATA DECODING DEVICE**

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ABSTRACT

A three-dimensional data encoding method includes: quantizing geometry information of each of three-dimensional points, using a first
10 quantization parameter (S5391); quantizing a first luminance using a second
quantization parameter and quantizing a first chrominance using a third
quantization parameter, the first luminance and the first chrominance
indicating a first color among attribute information of each of the
three-dimensional points (S5392); and generating a bitstream including the
15 geometry information quantized, the first luminance quantized, the first
chrominance quantized, the first quantization parameter, the second
quantization parameter, and a first difference between the second quantization
parameter and the third quantization parameter (S5393).

20 Figure 96