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(54) **SYSTEM AND METHOD FOR DEPTH DATA CODING**

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ABSTRACT

Systems and methods for encoding/decoding a 3D image are provided. The system decomposes depth map into a plurality of component depth maps (CDMs) for a plurality of depth ranges, wherein each component depth map corresponds to a focal plane of a multiple focal plane (MFP) decomposition of the image data. The system generates a plurality of component depth map focal planes (CDMFPs) by combining each respective CDM with the depth map. The system scales data in each CDMFP by a respective scaling factor. The system generates for transmission a plurality of encoded scaled CDMFP data streams for the plurality of depth ranges, wherein each respective scaled CDMFP data stream is based at least in part on a respective scaled CDMFP.

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